STN Columbus

```
Welcome to STN International
                  Web Page for STN Seminar Schedule - N. America
 NEWS 2 MAR 31
                  IFICDB, IFIPAT, and IFIUDB enhanced with new custom
                  IPC display formats
 NEWS
      3
         MAR 31
                  CAS REGISTRY enhanced with additional experimental
                  spectra
 NEWS 4
         MAR 31
                  CA/CAplus and CASREACT patent number format for U.S.
                  applications updated
 NEWS 5
         MAR 31
                  LPCI now available as a replacement to LDPCI
 NEWS 6
         MAR 31
                  EMBASE, EMBAL, and LEMBASE reloaded with enhancements
 NEWS 7
         APR 04
                  STN AnaVist, Version 1, to be discontinued WPIDS, WPINDEX, and WPIX enhanced with new
 NEWS 8 APR 15
                  predefined hit display formats
 NEWS 9 APR 28
                  EMBASE Controlled Term thesaurus enhanced
 NEWS 10 APR 28
                  IMSRESEARCH reloaded with enhancements
 NEWS 11
         MAY 30
                  INPAFAMDB now available on STN for patent family
                  searching
                  DGENE, PCTGEN, and USGENE enhanced with new homology
 NEWS 12
         MAY 30
                  sequence search option
 NEWS 13
         JUN 06
                  EPFULL enhanced with 260,000 English abstracts
 NEWS 14
         JUN 06
                  KOREAPAT updated with 41,000 documents
 NEWS 15
         JUN 13 USPATFULL and USPAT2 updated with 11-character
                  patent numbers for U.S. applications
NEWS 16
         JUN 19
                  CAS REGISTRY includes selected substances from
                  web-based collections
NEWS 17
         JUN 25
                  CA/CAplus and USPAT databases updated with IPC
                  reclassification data
                 AEROSPACE enhanced with more than 1 million U.S.
 NEWS 18
         JUN 30
                  patent records
 NEWS 19
         JUN 30
                  EMBASE, EMBAL, and LEMBASE updated with additional
                  options to display authors and affiliated
                  organizations
NEWS 20
                  STN on the Web enhanced with new STN AnaVist
         JUN 30
                  Assistant and BLAST plug-in
 NEWS 21
         JUN 30
                 STN AnaVist enhanced with database content from EPFULL
 NEWS 22
         JUL 28 CA/CAplus patent coverage enhanced
 NEWS 23
         JUL 28 EPFULL enhanced with additional legal status
                  information from the epoline Register
NEWS 24
NEWS 25
         JUL 28
                  IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
         JUL 28
AUG 01
                  STN Viewer performance improved
 NEWS 26
                  INPADOCDB and INPAFAMDB coverage enhanced
 NEWS 27
         AUG 13 CA/CAplus enhanced with printed Chemical Abstracts
                  page images from 1967-1998
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.
 NEWS HOURS
               STN Operating Hours Plus Help Desk Availability
               Welcome Banner and News Items
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FILE 'HOME' ENTERED AT 02:17:12 ON 15 AUG 2008

=> rile req

RILE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (->).

-> file reg
Cofi in V.S. DOLLARS
SINCE FILE TOTAL
SETTY SESSION
FULL ESTIMATED COST
0.21
0.21

FILE 'REGISTRY' ENTERED AT 02:17:57 ON 15 AUG 2008 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 13 AUG 2008 HIGHEST RN 1040889-91-5 DICTIONARY FILE UPDATES: 13 AUG 2008 HIGHEST RN 1040889-91-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

```
=> e thiohydantoin/cn
E1
                   THIOHOMOCHOLINE/CN
E2
             1
                   THIOHOMOSILDENAFIL/CN
EЗ
             1 --> THIOHYDANTOIN/CN
E4
                  THIOHYDRACRYLIC ACID/CN
                  THIOHYDROPEROXIDE, O-METHYL/CN
E5
E6
             2
                  THIOHYDROPEROXIDE, O-METHYL, IRIDIUM COMPLEX/CN
                  THIOHYDROQUINONE/CN
THIOHYDROXIMATE GLUCOSYLTRANSFERASE/CN
E7
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E8
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             1
E10
                  THIOHYDROXYL/CN
             1
E11
                  THIOHYDROXYLAMINE/CN
E12
                  THIOHYDROXYLAMINE, COBALT DERIV./CN
=> s e3
             1 THIOHYDANTOIN/CN
L1
=> d
    ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
     503-87-7 REGISTRY
RN
ED
    Entered STN: 16 Nov 1984
    4-Imidazolidinone, 2-thioxo- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hydantoin, 2-thio- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 2-Thiohydantoin
CN
    2-Thioxo-4-imidazolidinone
CN
    4-0xo-2-thioxoimidazolidine
    Imidazolidin-4-one-2-thione
CN
CN
    NSC 11772
CN
    Thiohydantoin
MF
    C3 H4 N2 O S
     COM
LC
                  AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA,
     STN Files:
       CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM,
       EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, PIRA, RTECS*, SPECINFO,
```

TOXCENTER, USPAT2, USPATFULL, USPATOLD (*File contains numerically searchable property data) Other Sources: EINECS**, NDSL**, TSCA** (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

532 REFERENCES IN FILE CA (1907 TO DATE) 72 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 532 REFERENCES IN FILE CAPLUS (1907 TO DATE)

SINCE FILE

ENTRY

11.75

TOTAL

11.96

SESSION

37 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

-> file uspatall

COST IN U.S. DOLLARS

FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 02:24:06 ON 15 AUG 2008 CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 02:24:06 ON 15 AUG 2008

CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 02:24:06 ON 15 AUG 2008 CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

=> s (shaving gel or shaving cream or shaving foam) 3644 (SHAVING GEL OR SHAVING CREAM OR SHAVING FOAM)

=> s (shaving gel or shaving cream or shaving foam)/clm 431 (SHAVING GEL OR SHAVING CREAM OR SHAVING FOAM)/CLM

=> s (reduct?) 1654032 (REDUCT?) L4

=> s (reduct?)/clm L5 133396 (REDUCT?)/CLM

=> s (thiosulfate)

33599 (THIOSULFATE)

=> s (thiosulfate)/clm

3053 (THIOSULFATE)/CLM

=> s 14 and 16 20621 L4 AND L6 L8

-> s 15 and 17 L9 303 L5 AND L7

=> s 12 and 18 L10 32 L2 AND L8

=> s 13 and 19 1 L3 AND L9

=> d

L11 ANSWER 1 OF 1 USPATFULL on STN

2004:214980 USPATFULL AN Shave gel compositions

TN Manivannan, Gurusamy, North Chelmsford, MA, UNITED STATES

```
Novikov, Alexander, Framingham, MA, UNITED STATES
       Thong, Stephen, Needham, MA, UNITED STATES
       Barnet, Alfred, Hingham, MA, UNITED STATES
       Xu, Yun, Andover, MA, UNITED STATES
PΙ
       US 20040166085
                         A1 20040826
A1 20030221 (10)
ΑI
       US 2003-371619
       Utility
       APPLICATION
FS
LN.CNT 596
INCL
       INCLM: 424/073.000
       NCLM: 424/073.000
NCL
IC
       [7]
              A61K007-15
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              A61K0007-15 [ICM, 7]
              A61K0008-04 [I,C*]; A61K0008-04 [I,A]; A61K0008-19 [I,C*];
       IPCR
              A61K0008-22 [I,A]; A61K0008-30 [I,C*]; A61K0008-46 [I,A];
              A61Q0009-02 [I,C*]; A61Q0009-02 [I,A]
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     (FILE 'HOME' ENTERED AT 02:17:12 ON 15 AUG 2008)
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                E THIOHYDANTOIN/CN
               1 S E3
1.1
     FILE 'USPATFULL, USPATOLD, USPAT2' ENTERED AT 02:24:06 ON 15 AUG 2008
           3644 S (SHAVING GEL OR SHAVING CREAM OR SHAVING FOAM)
L3
            431 S (SHAVING GEL OR SHAVING CREAM OR SHAVING FOAM)/CLM
        1654032 S (REDUCT?)
L4
L5
         133396 S (REDUCT?)/CLM
L6
          33599 S (THIOSULFATE)
L.7
           3053 S (THIOSULFATE)/CLM
T.R
          20621 S L4 AND L6
            303 S L5 AND L7
L9
             32 S L2 AND L8
L10
              1 S L3 AND L9
=> s 19 1-32
MISSING OPERATOR L9 1-32
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.
=> d 19 1-32
L9
   ANSWER 1 OF 303 USPATFULL on STN
AN
       2008:171617 USPATFULL
       System and Process for Treatment and De-halogenation of Ballast Water
TI
IN
       Childers, Harold E., Houston, TX, UNITED STATES
Fernandez, Randolto, Houston, TX, UNITED STATES
       Matousek, Rudolf C., Richmond, TX, UNITED STATES
       Moore, James B., Katy, TX, UNITED STATES Hill, David W., Sugar Land, TX, UNITED STATES
       US 20080149485
PТ
                          A1 20080626
AΤ
       US 2007-757315
                            A1 20070601 (11)
RLI
       Continuation-in-part of Ser. No. US 2005-37642, filed on 18 Jan 2005.
       Pat. No. US 7244348
DT
       Utility
FS
       APPLICATION
LN.CNT 1112
INCL
       INCLM: 204/555.000
       INCLS: 204/661.000
       NCLM: 204/555.000
NCLS: 204/661.000
NCL
       TPCT
              B01D0057-02 [I,A]; B01D0035-06 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
1.9
   ANSWER 2 OF 303 USPATFULL on STN
Full Text
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```
AN
       2008:121299 USPATFULL
ΤI
       METHOD FOR THIOSULFATE LEACHING OF PRECIOUS METAL-CONTAINING MATERIALS
TM
       Ji, Jinxing, Burnaby, CANADA
       Fleming, Christopher Andrew, Omemee, CANADA
       West-Sells, Paul George, Vancouver, CANADA
       Hackl, Ralph Peter, Vancouver, CANADA
PLACER DOME TECHNICAL SERVICES LIMITED, Vancouver, CANADA, V7X 1P1
PA
       (non-U.S. corporation)
       IIS 20080105088
                            A1 20080508
PT
AΙ
       US 2007-927170
                            A1 20071029 (11)
       Continuation of Ser. No. US 2004-836480, filed on 30 Apr 2004, PENDING
RLI
       Division of Ser. No. US 2003-446548, filed on 27 May 2003, GRANTED, Pat.
       No. US 7066983 Division of Ser. No. US 2001-852699, filed on 11 May
       2001, GRANTED, Pat. No. US 6660059
       US 2000-205472P
PRAI
                            20000519 (60)
       Utility
FS
       APPLICATION
LN.CNT 1381
INCL
       INCLM: 075/744.000
       INCLS: 075/739.000
NCL
       NCLM: 075/744.000
NCLS: 075/739.000
TC
       TPCT
              C22B0011-00 [I,A]; C22B0003-04 [I,A]; C22B0003-00 [I,C*]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
     ANSWER 3 OF 303 USPATFULL on STN
Full
     Text
AN
       2007:335668 USPATFULL
TI
       Anti-Fatigue Composition
       Kishida, Hidevuki, Kakogawa-shi, JAPAN
IN
       Kawabe, Taizo, Himeji-shi, JAPAN
       Hosoe, Kazunori, Takasago-shi, JAPAN
       Fujii, Kenji, Kobe-shi, JAPAN
US 20070293572 A1 200712
                         A1 20071220
ΡI
                            A1 20050509 (11)
       US 2005-596059
AI
       WO 2005-JP8422
                                 20050509
                                 20070803 PCT 371 date
PRAT
       JP 2004-141417
                            20040511
       JP 2004-263225
                            20040910
DT
       Utility
FS
       APPLICATION
LN.CNT 651
       INCLM: 514/561.000
INCL
       INCLS: 514/731.000
       NCLM: 514/561.000
NCL
       NCLS: 514/731.000
       IPCI
              A61K0031-05 [I,A]; A61K0031-045 [I,C*]; A61K0031-205 [I,A];
              A61K0031-185 [I,C*]; A61P0025-26 [I,A]; A61P0025-00 [I,C*]
       IPCR
              A61K0031-045 [I,C]; A61K0031-05 [I,A]; A23L0001-30 [I,C*];
              A23L0001-30 [I,A]; A23L0001-302 [N,C*]; A23L0001-302 [N,A];
              A61K0031-075 [I,C*]; A61K0031-09 [I,A]; A61K0031-122 [I,C*]; A61K0031-122 [I,A]; A61K0031-125 [I,A];
              A61K0045-00 [I,C*]; A61K0045-06 [I,A]; A61P0001-00 [I,C*];
              A61P0001-04 [I,A]; A61P0001-14 [I,A]; A61P0003-00 [I,C*];
              A61P0003-02 [I,A]; A61P0007-00 [I,C*]; A61P0007-00 [I,A];
               A61P0009-00 [I,C*]; A61P0009-04 [I,A]; A61P0021-00 [I,C*];
              A61P0021-04 [I,A]; A61P0025-00 [I,C]; A61P0025-26 [I,A];
              A61P0043-00 [I,C*]; A61P0043-00 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
     ANSWER 4 OF 303 USPATFULL on STN
     Text
AN
       2007:312439 USPATFULL
TI
       Multi-zone ground water and soil treatment
       Kerfoot, William B., Falmouth, MA, UNITED STATES
TN
       US 20070272623 A1 20071129
US 2006-440579 A1 20060525 (11)
DТ
ΑI
       Utility
FS
      APPLICATION
LN.CNT 569
TNCL
      INCLM: 210/759.000
NCL.
      NCLM: 210/759.000
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IC
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             C02F0001-72 [I,A]
       TPCR
              C02F0001-72 [I,C]; C02F0001-72 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 5 OF 303 USPATFULL on STN
L9
    Text
AN
       2007:297060 USPATFULL
TT
       Mitochondria Activators
       Fujii, Kenji, Kobe-shi, JAPAN
TN
       Matsumoto, Shuka, Himeji-shi, JAPAN
       Hosoe, Kazunori, Takasago-shi, JAPAN
PA
       KANEKA CORPORATION, Osaka-shi, JAPAN, 530-8288 (non-U.S. corporation)
       US 20070259908
                           A1 20071108
A1 20050825 (11)
PΙ
       US 2005-661419
AΙ
       WO 2005-JP15401
                                20050825
                                20070313 PCT 371 date
PRAI
       JP 2004-249494
                            20040830
       JP 2004-249495
                           20040830
DT
       Utility
FS
       APPLICATION.
LN.CNT 990
INCL
       INCLM: 514/292.000
       INCLS: 546/084.000
NCL
       NCLM: 514/292.000
       NCLS: 546/084.000
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              A61K0031-437 [I,A]; A61K0031-4353 [I,C*]; A61P0025-00 [I,A];
              A61P0003-10 [I,A]; A61P0003-00 [I,C*]; C07D0471-04 [I,A];
              C07D0471-00 [I,C*]
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              A61K0031-4353 [I,C]; A61K0031-437 [I,A]; A61P0003-00 [I,C];
              A61P0003-10 [I,A]; A61P0025-00 [I,C]; A61P0025-00 [I,A];
              C07D0471-00 [I,C]; C07D0471-04 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
   ANSWER 6 OF 303 USPATFULL on STN
L9
   l Text
AN
       2007:290631 USPATFULL
       Method for Performing the Hot Start of Enzymatic Reactions
       Ignatov, Konstantin, Moscow, RUSSIAN FEDERATION
IN
       Kramarov, Vladimir, Moscow, RUSSIAN FEDERATION
PΙ
       US 20070254327
                           A1 20071101
ΑI
       US 2005-632700
                            A1 20050714 (11)
       WO 2005-GB2774
                                20050714
                                20070314 PCT 371 date
PRAT
       GB 2004-16293
                            20040721
       US 2004-589591P
                            20040721 (60)
DT
       Utility
FS
       APPLICATION
LN.CNT 727
INCL
       INCLM: 435/025.000
       INCLS: 435/183.000
       NCLM: 435/025.000
NCL
       NCLS:
              435/183.000
       IPCI
              C12Q0001-68 [I,A]
       IPCR
            C12Q0001-68 [I,C]; C12Q0001-68 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
T. 9
    ANSWER 7 OF 303 USPATFULL on STN
AN
       2007:256682 USPATFULL
       Site-specific enzymatic deposition of metal in situ
IN
       Hainfeld, James F., Shoreham, NY, UNITED STATES
       Liu, Wengiu, Miller Place, NY, UNITED STATES
PT
       US 20070224625 A1 20070927
AΙ
       US 2007-714682
                           A1 20070305 (11)
       Continuation-in-part of Ser. No. US 2007-627735, filed on 26 Jan 2007,
RI.T
       PENDING Division of Ser. No. US 2003-658609, filed on 8 Sep 2003, GRANTED, Pat. No. US 7183072 Continuation-in-part of Ser. No. US
       2001-822131, filed on 30 Mar 2001, GRANTED, Pat. No. US 6670113
DT
       Htility
FS
      APPLICATION
LN.CNT 2966
INCL INCLM: 435/006.000
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INCLS: 435/183.000; 435/007.940
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             435/007.940: 435/183.000
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              G01N0033-53 [I,A]; C12N0009-00 [I,A]; C12Q0001-68 [I,A]
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              G01N0033-53 [I,C]; G01N0033-53 [I,A]; C12N0009-00 [I,C];
              C12N0009-00 [I,A]; C12Q0001-68 [I,C]; C12Q0001-68 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 8 OF 303 USPATFULL on STN
1.9
    Text
       2007:228637 USPATFULL
AN
TT
       Dialysate of peritoneal dialysis and its preparation method
IN
       Sakai, Asahi, Sakura-shi, JAPAN
       Nakayama, Masaaki, Tokyo, JAPAN
                          A1 20070830
A1 20070212 (11)
PT
       US 20070199898
ΑI
       US 2007-704931
RLI
       Division of Ser. No. US 2003-380350, filed on 13 Mar 2003, ABANDONED A
       371 of International Ser. No. WO 2001-JP7772, filed on 7 Sep 2001
PRAI
       JP 2000-277810
                          20000913
       JP 2001-40718
                           20010216
       JP 2001-186642
                           20010620
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       Utility
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INCL
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       INCLS: 424/703.000
       NCLM: 210/647.000
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              A61K0033-04 [I,A]; B01D0061-00 [I,A]
       IPCR
              A61K0033-04 [I,C]; A61K0033-04 [I,A]; A61L0002-04 [I,C*];
              A61L0002-06 [I,A]; A61K0009-08 [I,C*]; A61K0009-08 [I,A];
              A61K0045-00 [I,C*]; A61K0045-06 [I,A]; A61M0001-14 [I,C*];
              A61M0001-14 [I,A]; A61M0001-28 [I,C*]; A61M0001-28 [I,A];
              B01D0061-00 [I,C]; B01D0061-00 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
     ANSWER 9 OF 303 USPATFULL on STN
Full
     Text
AN
       2007 · 200717 | HSPATFILL
ΤI
       ELECTROLESS GOLD PLATING SOLUTION AND METHOD
IN
       Hwang, Kilnam, Cranston, RI, UNITED STATES
                         A1 20070802
PΤ
       US 20070175359
AΙ
       US 2006-566935
                           A1
                               20061205 (11)
       IIS 2006-764575P
PRAI
                           20060201 (60)
       Utility
FS
       APPLICATION
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INCL
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       INCLS: 106/012.600; 427/437.000; 427/443.100; 427/282.000
NCL
       NCLM: 106/001.230
              106/001.260; 427/282.000; 427/437.000; 427/443.100
       NCLS:
       IPCI
              C23C0018-44 [I,A]; C23C0018-31 [I,C*]; B05D0001-18 [I,A];
              B05D0005-00 [I,A]
              C23C0018-31 [I,C]; C23C0018-44 [I,A]; B05D0001-18 [I,C];
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 10 OF 303 USPATFULL on STN
       2007:30234 USPATFULL
AN
TI
       Amino acid and metabolite biosynthesis
IN
       Madden, Kevin T., Arlington, MA, UNITED STATES
       Walbridge, Michael J., Dorchester, MA, UNITED STATES
       Yorgey, Peter S., Cambridge, MA, UNITED STATES
       Doten, Reed, Framingham, MA, UNITED STATES
                         A1 20070201
A1 20060619 (11)
PΙ
       US 20070026505
       US 2006-455390
ΑТ
PRAT
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                          20051215 (60)
       US 2005-750592P
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       NCLS:
             435/252.300; 435/252.330; 435/471.000
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              C12P0013-04 [I,A]; C12P0013-00 [I,C*]; C12N0001-21 [I,A];
              C12N0015-74 [I,A]
       IPCR
              C12P0013-00 [I,C]; C12P0013-04 [I,A]; C12N0001-21 [I,C];
              C12N0001-21 [I,A]; C12N0015-74 [I,C]; C12N0015-74 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 11 OF 303 USPATFULL on STN
1.9
Ful
       2006:305714 USPATFULL
AN
       Cerium ion-containing solution and corrosion inhibitor
       Nakayama, Junichi, Echizen-shi, JAPAN
PA
       Shin-Etsu Chemical Co., Ltd. (non-U.S. corporation)
PΙ
       US 20060261313
                          A1 20061123
A1 20060522 (11)
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DT
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FS
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INCL
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       INCLS: 534/015.000
       NCLM: 252/389.100
NCT.
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       IPCI
              C07F0005-00 [I.A]; C09K0015-16 [I.A]; C09K0015-00 [I.C*]
              C07F0005-00 [I,C]; C07F0005-00 [I,A]; C09K0015-00 [I,C];
       IPCR
              C09K0015-16 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
   ANSWER 12 OF 303 USPATFULL on STN
L9
   1 Text
2006:298643 USPATFULL
AN
       PROCESS CONTROL OXIDATION
TN
       Burns, Ivey, 1175 Benji Ridge Court, Kissimmee, FL, UNITED STATES 34737
       Charanda, Thoram, 3975 Dora Wood Drive, Mount Dora, FL, UNITED STATES
       Nicodemo, Thomas J., 15916 Lake Orienta Court, Clermont, FL, UNITED
       STATES 34711
       Davis, Richard, 5455 Boutin Lane, St. Cloud, FL, UNITED STATES 34772
       Crowder, Janell, 1013 Falling Leaf Street, Celebration, FL, UNITED
       STATES
               34747
       US 20060254987
                           A1 20061116
PT
AΙ
       US 2006-459597
                           A1 20060724 (11)
       Division of Ser. No. US 2005-173103, filed on 30 Jun 2005, PENDING
RLI
PRAI
       US 2004-586337P
                           20040707 (60)
DT
       Utility
       APPLICATION
FS
LN.CNT 1505
INCL
       INCLM: 210/746.000
       NCLM: 210/746.000
NCL
IC
       IPCI
              C02F0001-00 [I,A]
       IPCR
             C02F0001-00 [I,C]; C02F0001-00 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 13 OF 303 USPATFULL on STN
Full Text
AN
       2006:273893 USPATFULL
       Production of titania
       Roche, Eric Girvan, Buoragul, AUSTRALIA
       Stuart, Alan David, New Lambton, AUSTRALIA
       Grazier, Philip Ernest, Kilaben Bay, AUSTRALIA
PΙ
       US 20060233686
US 2003-531795
                           A1 20061019
A1 20031017 (10)
ΑI
       WO 2003-AU1384
                                20031017
                                20060505 PCT 371 date
PRAI
      NL 2002-952157
                           20021018
DT
      Utility
FS
       APPLICATION
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LN.CNT 995
       INCLM: 423/082.000
INCL
NCL
       NCLM:
              423/082,000
IC
       IPCI
              C01G0025-06 [I,A]; C01G0025-00 [I,C*]
       IPCR
              C01G0025-00 [I,C]; C01G0025-06 [I,A]; C22B0003-00 [I,C*];
              C22B0003-08 [I,A]; C22B0003-44 [I,A]; C22B0034-00 [I,C*]; C22B0034-12 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
     ANSWER 14 OF 303 USPATFULL on STN
       2006:227743 USPATFULL
AN
TI
       Silver manganese salt cathodes for alkali
       Licht, Stuart, Technion City, ISRAEL
       Chemergy, Energy Technologies, Technion City, ISRAEL (non-U.S.
PA
       corporation)
ΡI
       US 20060194107
                            A1 20060831
ΑI
       US 2005-223137
                           A1 20050912 (11)
RLI
       Continuation of Ser. No. US 2002-76268, filed on 13 May 2002, ABANDONED
PRAI
       IL 2001-141527
                           20010220
       Utility
DT
       APPLICATION
FS
LN.CNT 416
INCL
       INCLM: 429/219.000
       INCLS: 429/224.000; 429/232.000
       NCLM: 429/219.000
       NCLS: 429/224.000; 429/232.000
              H01M0004-54 [I,A]; H01M0004-48 [I,C*]; H01M0004-50 [I,A]; H01M0004-62 [I,A]
       IPCI
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 15 OF 303 USPATFULL on STN
L9
    Text
       2006:212026 USPATFULL
AN
       METHOD AND SYSTEM FOR TREATING A SUBSTRATE WITH A HIGH PRESSURE FLUID
       USING A PEROXIDE-BASED PROCESS CHEMISTRY IN CONJUNCTION WITH AN
       INITIATOR
TM
       Kevwitch, Robert, 2870 E. Carla Vista Drive, Chandler, AZ, UNITED STATES
       85225
PA
       TOKYO ELECTRON LIMITED, Tokyo, JAPAN (non-U.S. corporation)
ΡI
       US 20060180174
                           A1 20060817
ΑI
       US 2005-906350
                           A1 20050215 (10)
       Utility
FS
       APPLICATION
LN.CNT 967
       INCLM: 134/001.300
INCL
       INCLS: 427/248.100; 134/056.000R
NCL
       NCLM: 134/001.300
       NCLS: 134/056.000R; 427/248.100
              C23C0016-00 [I,A]; B08B0006-00 [I,A]; B08B0003-00 [I,A]
       IPCI
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 16 OF 303 USPATFULL on STN
L9
Full Text
AN
       2006:208369 USPATFULL
       Production of titania
TN
       Roche, Eric Girvan, Shortland, AUSTRALIA
Stuart, Alan David, Shorthand, AUSTRALIA
       Grazier, Philip Ernest, Shortland, AUSTRALIA
                                20060810
       US 20060177363
PT
                           A1
       US 2003-531784
                            A1 20031017 (10)
       WO 2003-AU1386
                                20031017
                                20060216 PCT 371 date
PRAI
       AU 2002-2002952158 20021018
       Utility
DT
       APPLICATION
LN.CNT 988
       INCLM: 423/083.000
INCL
NCL
       NCLM: 423/083.000
TC
       IPCI
              C22B0034-10 [I,A]; C22B0034-00 [I,C*]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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T.9
    ANSWER 17 OF 303 USPATFULL on STN
Full Text
       2006:181373 USPATFULL
AN
TI
       Production of titania
IN
       Roche, Eric Girvan, VALE STREET, SHORTLAND, NEW SOUTH WALES, AUSTRALIA
       2307
       Stuart, Alan David, New South Wales, AUSTRALIA
       Grazier, Ernest Philip, New South Wales, AUSTRALIA
       Liu, Houyuan, New South Wales, AUSTRALIA
PΙ
       US 20060153768
                            A1 20060713
       US 2003-531804
                            A1 20031017 (10)
AΙ
       WO 2003-AU1385
                                 20031017
                                 20060126 PCT 371 date
       AU 2002-2002952155 20021018
PRAI
       Utility
FS
       APPLICATION
LN.CNT 1001
INCL
       INCLM: 423/610.000
NCL
       NCLM: 423/610.000
              423/810.000

C01G0023-047 [I,A]; C01G0023-00 [I,C*]

C01G0023-00 [I,C]; C01G0023-047 [I,A]; C22B0003-00 [I,C*];

C22B0003-26 [I,A]; C22B0034-00 [I,C*]; C22B0034-12 [I,A]
IC
       IPCI
       IPCR
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
    ANSWER 18 OF 303 USPATFULL on STN
       2006:117433 USPATFULL
AN
TT
       Expulsive liquid for exterminating disease injury of plants
IN
       Saitou, Yousuke, Aichi-ken, JAPAN
       HOSHIZAKI DENKI KABUSHIKI KAISHA, Tovoake-shi, JAPAN (non-U.S.
PA
       corporation)
       US 20060099274
                            A1 20060511
ΑI
       US 2004-985002
                           A1 20041110 (10)
DT
       Utility
FS
       APPLICATION
LN.CNT 296
       INCLM: 424/600.000
INCL
NCL
       NCLM: 424/600.000
              A01N0059-00 [I,A]
       IPCI
       IPCR
             A01N0059-00 [I,A]; A01N0059-00 [I,C]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
    ANSWER 19 OF 303 USPATFULL on STN
Full Text
AN
       2006:33799 USPATFULL
TI
       Self-heating non-aerosol shave product
IN
       Novikov, Alexander, Framingham, MA, UNITED STATES
       Obias, Honorio V., Medford, MA, UNITED STATES
       Xu, Yun, Andover, MA, UNITED STATES
       Barnet, Alfred G., Hingham, MA, UNITED STATES
       Thong, Stephen H., Pennington, NJ, UNITED STATES
PA
       The Gillette Company (U.S. corporation)
                        A1 20060209
A1 20040809 (10)
       US 20060029566
PΤ
AΙ
       US 2004-914428
DT
       Utility
FS
       APPLICATION
LN.CNT 653
TNCL.
       INCLM: 424/073.000
NCL
       NCLM: 424/073.000
       IPCI
              A61K0008-39 [I,A]; A61K0008-30 [I,C*]
IC
       IPCR
              A61K0008-30 [I,C]; A61K0008-39 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
   ANSWER 20 OF 303 USPATFULL on STN
L9
Full Text
AN
       2006:33798 USPATFULL
TI
       Self-heating shave foam product
       Xu, Yun, Andover, MA, UNITED STATES
       Obias, Honorio V., Medford, MA, UNITED STATES
       Novikov, Alexander, Framingham, MA, UNITED STATES
       Barnet, Alfred G., Hingham, MA, UNITED STATES
       Thong, Stephen H., Pennington, NJ, UNITED STATES
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PΑ
       The Gillette Company (U.S. corporation)
PΤ
       US 20060029565 A1 20060209
AΙ
       US 2004-914427
                            A1 20040809 (10)
       Utility
FS
       APPLICATION
LN.CNT 777
INCL
       INCLM: 424/073.000
NCI.
       NCLM: 424/073.000
       TPCT
              A61K0008-39 [I,A]; A61K0008-30 [I,C*]
TC.
       IPCR
              A61K0008-30 [I.Cl: A61K0008-39 [I.A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 21 OF 303 USPATFULL on STN
Full Text
       2006:7280 USPATFULL
AN
ΤI
       Process control oxidation
IN
       Burns, Ivey, Kissimmee, FL, UNITED STATES
       Charanda, Thoram, Mount Dora, FL, UNITED STATES
       Nicodemo, Thomas J., Clermont, FL, UNITED STATES
Davis, Richard, St. Cloud, FL, UNITED STATES
Crowder, Janell, Celebration, FL, UNITED STATES
PТ
       US 20060006122
                            A1 20060112
A1 20050630 (11)
ΑI
       US 2005-173103
PRAI
       US 2004-586337P
                            20040707 (60)
DT
       Utility
FS
       APPLICATION
LN.CNT 1719
INCL
       INCLM: 210/758.000
NCL
       NCLM: 210/758,000
IC
       IPCI
              C02F0001-72 [I,A]
              C02F0001-72 [I,A]; C02F0001-72 [I,C]
       IPCR
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
   ANSWER 22 OF 303 USPATFULL on STN
L9
Full Text
AN
       2006:4743 USPATFULL
       Process for the preparation of Imiquimod
TM
       Razzetti, Gabriele, Sesto S. Giovanni, ITALY
       Porta, Eleonora, Erba, ITALY
PΙ
       US 20060004202
                           A1 20060105
ΑI
       US 2005-159129
                            A1 20050623 (11)
PRAI
       IT 2004-MI1282
                            20040624
       Utility
DT
       APPLICATION
FS
LN.CNT 325
INCL
       INCLM: 546/082.000
NCL
       NCLM: 546/082,000
IC
       IPCI
              C07D0471-02 [I,A]
       IPCR
              C07D0471-00 [I,C]; C07D0471-02 [I,A]; C07D0471-04 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
     ANSWER 23 OF 303 USPATFULL on STN
Full
     Text
2005:267528 USPATFULL
AN
TI
       Reversible oxidation of carbon nanotubes
       Diner, Bruce A., Chadds Ford, PA, UNITED STATES
       Zheng, Ming, Wilmington, DE, UNITED STATES
                           A1 20051020
A1 20050301
PΤ
       US 20050232844
ΑI
       US 2005-69604
                                 20050301 (11)
       US 2004-549313P
                            20040302 (60)
PRAT
       US 2004-570160P
                            20040512 (60)
DT
       Utility
FS
       APPLICATION
LN.CNT 830
       INCLM: 423/447.200
TNCL.
       INCLS: 429/105.000; 204/433.000; 136/244.000
NCL
       NCLM: 423/447.200
       NCLS: 136/244.000; 204/433.000; 429/105.000
IC
       İCM
              H01M008-20
       TCS
              D01F009-12; H01L025-00
       IPCI
              H01M0008-20 [ICM, 7]; D01F0009-12 [ICS, 7]; H01L0025-00 [ICS, 7]
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TPCR
              D01F0009-12 [I,C*]; D01F0009-12 [I,A]; H01G0009-20 [I,C*];
              H01G0009-20 [I,A]; H01L0025-00 [I,C*]; H01L0025-00 [I,A];
              H01L0051-05 [N,C*]; H01L0051-30 [N,A]; H01M0008-20 [I,C*];
              H01M0008-20 [I,A]; H01M0014-00 [I,C*]; H01M0014-00 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
     ANSWER 24 OF 303 USPATFULL on STN
     Text
       2005:208427 USPATEULL
AN
ΤI
       Production of titania
IN
       Roche, Eric Girvan, New South Wales, AUSTRALIA
       Stuart, Alan David, New South Wales, AUSTRALIA
       Grazier, Philip Ernest, New South Wales, AUSTRALIA
       Nicholson, Sarah, Queensland, AUSTRALIA
       BHP BILLITON INNOVATION PTY LTD. (non-U.S. corporation)
PA
                          A1 20050818
       US 20050180903
PI
       US 7326390
                           B2 20080205
       US 2005-107687
                           A1 20050415 (11)
ΑI
       Continuation-in-part of Ser. No. WO 2003-AU401421, filed on 17 Oct 2003,
RLI
       UNKNOWN
DT
       Utility
       APPLICATION
FS
LN.CNT 954
INCL
       INCLM: 423/086.000
NCL
       NCLM: 423/082.000; 423/086.000
       NCLS: 423/085.000; 423/086.000; 423/610.000; 423/615.000; 423/616.000
       [7]
       TCM
              C01G023-047
              C01G0023-047 [ICM, 7]; C01G0023-00 [ICM, 7, C*]
       IPCI
       IPCI-2 C01G0023-02 [I,A]; C01G0023-00 [I,C*]
              C01G0023-00 [I,C]; C01G0023-02 [I,A]; C01G0023-00 [I,A];
       IPCR
              C01G0023-047 [I,A]; C01G0023-053 [I,A]; C22B0003-00 [I,C*];
              C22B0003-00 [I,A]; C22B0003-08 [I,A]; C22B0003-44 [I,A];
              C22B0034-00 [I,C*]; C22B0034-12 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
    ANSWER 25 OF 303 USPATFULL on STN
Full Text
AN
       2005:195870 USPATEULL
ΤI
       Method of inhibiting oxidation, water capable of inhibiting oxidation
       and use thereof
TN
       Yanagihara, Tomoyuki, Kanagawa, JAPAN
       Satoh, Bunpei, Kanagawa, JAPAN
       Shudo, Tatsuva, Kanagawa, JAPAN
PT
       US 20050170011
                          A1 20050804
       US 2003-512382
                           A1 20030425 (10)
AΙ
       WO 2003-JP5386
                                20030425
                           20020426
PRAI
       JP 2002-125986
       JP 2003-6560
                            20020628
       JP 2003-2002381774 20021227
DT
       Utility
FS
       APPLICATION
LN.CNT 5201
INCL
       INCLM: 424/600.000
NCL
       NCLM: 424/600.000
IC
       [7]
       İCM
              A61K033-00
       TPCT
              A61K0033-00 [ICM, 7]
              A61P0039-00 [I,C*]; A61P0039-06 [I,A]; C02F0001-461 [N,C*]; C02F0001-467 [N,A]; C02F0001-70 [I,C*]; C02F0001-70 [I,A]
       IPCR
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
    ANSWER 26 OF 303 USPATFULL on STN
Full Text
       2005:177304 USPATFULL
AN
       Identifying inhibitors of intracellular protein fibrillization
TΙ
IN
       Kuret, Jeff, Dublin, OH, UNITED STATES
Chirita, Carmen N., Dublin, OH, UNITED STATES
       Necula, Mihaela, Columbus, OH, UNITED STATES
       The Ohio State University Research Foundation, Columbus, OH, UNITED
PA
       STATES (U.S. corporation)
       US 20050153384
PT
                          A1 20050714
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US 7172875
                            B2 20070206
       US 2004-783795
                           A1 20040218 (10)
AΙ
PRAI
       US 2004-536324P
                            20040113 (60)
DT
       Utility
FS
       APPLICATION
LN.CNT 1576
INCL
       INCLM: 435/023.000
NCL
       NCLM: 435/007.100; 435/023.000
TC
       171
       ICM
               G01N033-53
       ICS
               C120001-37
       IPCI
               G01N0033-53 [ICM, 7]; C12Q0001-37 [ICS, 7]
       IPCI-2 G01N0033-53 [I,A]
       IPCR
               G01N0033-53 [I,C]; G01N0033-53 [I,A]; C12Q0001-37 [I,C*];
               C1200001-37 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 27 OF 303 USPATFULL on STN
Full Text
AN
       2005:98840 USPATFULL
       High capacity alkaline cells
Boone, David, Oregon, WI, UNITED STATES
ΤI
TN
       Bushong, William C., Madison, WI, UNITED STATES
       Cheeseman, Paul, Madison, WI, UNITED STATES
       Davidson, Gregory J., Oregon, WI, UNITED STATES
       Destephen, Mario, Madison, WI, UNITED STATES
       Jin, Zihong, Cottage Grove, WI, UNITED STATES
       Luecke, Jon, Madison, WI, UNITED STATES
Mortensen, Erik, Sun Prarie, WI, UNITED STATES
       Ndzebet, Ernest, Madison, WI, UNITED STATES
       Ramaswami, Karthik, Middleton, WI, UNITED STATES
       Sazhin, Sergey, Madison, WI, UNITED STATES
       Vu, Viet H., Verona, WI, UNITED STATES
                          A1 20050421
A1 20040809 (10)
ΡI
       US 20050084755
       US 2004-914958
ΑI
PRAI
       US 2003-493695P
                            20030808 (60)
20031210 (60)
       US 2003-528414P
       US 2004-577292P
                            20040604 (60)
DT
       Utility
FS
       APPLICATION
LN.CNT 2647
INCL
       INCLM: 429/220.000
       INCLS: 429/218.100
       NCLM: 429/220.000
NCLS: 429/218.100
NCL.
       ICM
               H01M004-48
       ICS
               H01M004-58
       IPCI
               H01M0004-48 [ICM, 7]; H01M0004-58 [ICS, 7]
       IPCR
               H01M0004-48 [I,C*]; H01M0004-48 [I,A]; H01M0004-58 [I,C*];
               H01M0004-58 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
     ANSWER 28 OF 303 USPATFULL on STN
Full
    Text
       2005:37513 USPATFULL
AN
TI
       Products containing quantum of bioparticles and method for production
       thereof
IN
       Vesey, Graham, Hornsby, AUSTRALIA
       Gauci, Mark, French Forest, AUSTRALIA
PΙ
       US 20050032192
                            A1 20050210
       IIS 7374904
                            B2 20080520
AT
       US 2004-488683
                            A1 20040922 (10)
       WO 2002-AU1216
                                 20020904
       AU 2001-7505
                            20010905
PRAI
DT
       Utility
       APPLICATION
LN.CNT 1515
INCL
       INCLM: 435/252.100
       INCLS: 435/252.310; 435/252.330
NCT.
       NCLM: 435/030.000; 435/252.100
       NCLS: 435/004.000; 435/007.320; 435/029.000; 435/252.310; 435/252.330
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IC
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               C12N001-20
       IPCI
               C12N0001-20 [ICM, 7]
       IPCI-2 C1200001-24 [I,A]
       IPCR
               G01N0033-50 [I,C*]; G01N0033-50 [I,A]; C12N0001-00 [I,C*];
               C12N0001-00 [I,A]; C12N0001-04 [I,C*]; C12N0001-04 [I,A]; C12N0001-20 [I,C*]; C12N0001-20 [I,C*]; C12N0001-20 [I,A]; C12Q0001-00 [I,C*];
               C12Q0001-00 [I,A]; C12Q0001-02 [I,C*]; C12Q0001-02 [I,A];
               G01N0033-48 [I,C*]; G01N0033-48 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
1.9
     ANSWER 29 OF 303 USPATFULL on STN
        2005:28055 USPATFULL
AN
TI
       High performance CT reflector for a scintillator array and method for
       making same
IN
       Wei, Chang, Niskayuna, NY, UNITED STATES
       Lyons, Robert Joseph, Burnt Hills, NY, UNITED STATES
       Hart, Richard Louis, Albany, NY, UNITED STATES
       Echeverry, Jaime Andres, Troy, NY, UNITED STATES
       Lin, Wendy Wen-Ling, Niskayuna, NY, UNITED STATES US 20050023472 A1 20050203
                            A1 20050203
B2 20070116
PТ
       US 7164134
AΙ
       US 2003-632277
                            A1 20030801 (10)
DT
       Utility
FS
       APPLICATION
LN.CNT 536
TNCL
       INCLM: 250/368.000
NCL
       NCLM: 250/368,000
       NCLS: 250/370.110; 378/019.000; 378/098.800
       ICM
               G01T001-20
       IPCI
               G01T0001-20 [ICM, 7]; G01T0001-00 [ICM, 7, C*]
       IPCI-2 G01T0001-202 [I,A]; G01T0001-24 [I,A]; G01T0001-00 [I,C*];
               G01N0023-083 [I,A]; G01N0023-02 [I,C*]; H05G0001-64 [I,A];
               H05G0001-00 [I,C*]
       IPCR
               G01T0001-00 [I,C*]; G01T0001-20 [I,A]; G01T0001-00 [I,C];
               G01T0001-202 [I,A]; G01N0023-02 [I,C]; G01N0023-083 [I,A];
               G01T0001-24 [I,A]; H05G0001-00 [I,C]; H05G0001-64 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9 ANSWER 30 OF 303 USPATFULL on STN
Full Text
        2005:27831 USPATFULL
AN
ΤI
       Method and apparatus for forming gold plating
       Ichimura, Masaya, Nagoya-shi, JAPAN
TN
       Masui, Kanji, Okazaki-shi, JAPAN
PA
       Kabushiki Kaisha Tokai Rika Denki Seisakusho (non-U.S. corporation)
PΙ
       US 20050023248
                            A1 20050203
                            A1 20040721 (10)
ΑI
       US 2004-895498
       JP 2003-280964
                             20030728
PRAI
       JP 2004-210430
                             20040716
       Utility
DT
FS
       APPLICATION
LN.CNT 461
       INCLM: 216/087.000
INCL
       INCLS: 427/558.000; 427/443.100; 427/581.000
NCL.
       NCLM: 216/087.000
NCLS: 427/443.100; 427/558.000; 427/581.000
       ICM
               C23F001-00
       ICS
               B05D005-12
       TPCT
               C23F0001-00 [ICM, 7]; B05D0005-12 [ICS, 7]
       IPCR
               C23C0018-31 [I,C*]; C23C0018-44 [I,A]; C23C0018-00 [I,C*];
               C23C0018-14 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 31 OF 303 USPATFULL on STN
L9
Full
AN
       2004:313878 USPATFULL
       Oligomers and polymers containing sulfonite groups and method for the
       production thereof
```

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Haring, Thomas, Stuttgart, GERMANY, FEDERAL REPUBLIC OF
       Kerres, Jochen, Ostfildern, GERMANY, FEDERAL REPUBLIC OF
       Zhang, Wei, Stuttgart, GERMANY, FEDERAL REPUBLIC OF
                           A1 20041209
PT
       US 20040247548
       US 7202327
                            B2 20070410
A1 20040722 (10)
       US 2004-488420
AΤ
       WO 2002-DE3260
       DE 2001-10142573
                           20010901
PRAT
       Utility
DT
FS
       APPLICATION
LN.CNT 665
INCL
       INCLM: 424/070.110
       INCLS: 526/287.000
NCL
       NCLM: 528/391.000; 424/070.110
       NCLS:
              424/070.110; 429/122.000; 525/535.000; 526/287.000; 528/373.000
       ICM
              A61K007-06
              A61K007-11; C08F028-02
       IPCI
              A61K0007-06 [ICM, 7]; A61K0007-11 [ICS, 7]; C08F0028-02 [ICS, 7];
              C08F0028-00 [ICS,7,C*]
       IPCI-2 C08G0075-00 [I,A]; C08F0028-02 [I,A]; C08F0028-00 [I,C*];
              A61K0007-06 [I,A]; A61K0007-11 [I,A]
B01D0053-22 [I,C*]; B01D0053-22 [I,A]; B01D0061-36 [I,C*];
       IPCR
              B01D0061-36 [I,A]; B01D0071-00 [I,C*]; B01D0071-82 [I,A];
              C08C0019-00 [I,C*]; C08C0019-02 [I,A]; C08F0008-00 [I,C*];
              C08F0008-04 [I,A]; C08G0085-00 [I,C*]; C08G0085-00 [I,A];
              C08J0005-20 [I,C*]; C08J0005-22 [I,A]; H01B0001-06 [I,C*];
               H01B0001-06 [I,A]; H01B0013-00 [I,C*]; H01B0013-00 [I,A];
               H01M0006-18 [I,C*]; H01M0006-18 [I,A]; H01M0008-02 [I,C*];
               H01M0008-02 [I,A]; H01M0008-10 [I,C*]; H01M0008-10 [I,A];
               H01M0010-36 [I,C*]; H01M0010-40 [I,A]; C08G0075-00 [I,C];
               C08G0075-00 [I,A]; C08F0028-00 [I,C]; C08F0028-02 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
     ANSWER 32 OF 303 USPATFULL on STN
Full Text
       2004:267171 USPATFULL
AN
TI
       In-situ process for detoxifying hexavalent chromium in soil and
       groundwater
IN
       Yen, Chen-Yu, Phoenix, MD, UNITED STATES
PA
       Gannett Fleming, Inc. (U.S. corporation)
                           A1 20041021
B2 20051018
A1 20040513 (10)
PΤ
       US 20040208705
       US 6955501
       US 2004-844864
AT
       Continuation of Ser. No. US 2002-235984, filed on 5 Sep 2002, GRANTED,
RLI
       Pat. No. US 6758633
PRAI
       US 2001-317786P
                            20010906 (60)
DT
       Utility
FS
       APPLICATION
LN.CNT 1231
       INCLM: 405/128.500
INCL
NCL
       NCLM: 405/128.750; 405/128.500
NCLS: 405/128.250
       [71
       ICM
              B09C001-00
       IPCI
              B09C0001-00 [ICM, 7]
       IPCI-2 B09B0001-00 [ICM, 7]
       TPCR
              B09C0001-00 [I,C*]; B09C0001-00 [I,A]; B09C0001-08 [I,A];
               B09C0001-10 [I,C*]; B09C0001-10 [I,A]; C02F0001-70 [I,C*];
               C02F0001-70 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
=> d his
     (FILE 'HOME' ENTERED AT 02:17:12 ON 15 AUG 2008)
     FILE 'REGISTRY' ENTERED AT 02:17:57 ON 15 AUG 2008
                E THIOHYDANTOIN/CN
               1 S E3
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FILE 'USPATFULL, USPATOLD, USPAT2' ENTERED AT 02:24:06 ON 15 AUG 2008

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3644 S (SHAVING GEL OR SHAVING CREAM OR SHAVING FOAM)
L3
             431 S (SHAVING GEL OR SHAVING CREAM OR SHAVING FOAM)/CLM
L4
         1654032 S (REDUCT?)
1.5
          133396 S (REDUCT?)/CLM
L6
           33599 S (THIOSULFATE)
             3053 S (THIOSULFATE)/CLM
            20621 S L4 AND L6
L8
L9
              303 S L5 AND L7
               32 S L2 AND L8
1.10
                 1 S L3 AND L9
=> d 110 1-32
L10 ANSWER 1 OF 32 USPATFULL on STN
Full
AN
        2008:151098 USPATFULL
TI
        BLOCK POLYMERS, COMPOSITIONS AND METHODS OF USE FOR FOAMS, LAUNDRY
        DETERGENTS, SHOWER RINSES AND COAGULANTS
        YEUNG, Dominic Wai-Kwing, Ontario, CANADA
        Bergeron, Vance, Antony, FRANCE
        Bodet, Jean-Francois, Mason, OH, UNITED STATES
        Sivik, Mark Robert, Ft. Mitchell, KY, UNITED STATES
Kluesener, Bernard William, Harrison, OH, UNITED STATES
        Scheper, William Michael, Lawrenceburg, IN, UNITED STATES
        Rhodia Inc., Cranbury, NJ, UNITED STATES (U.S. corporation)
PA
                               A1 20080605
PΙ
        US 20080131393
        US 2007-966675
                               A1 20071228 (11)
ΑI
        Division of Ser. No. US 2005-25967, filed on 3 Jan 2005, Pat. No. US 7335700 Continuation of Ser. No. US 2000-698149, filed on 30 Oct 2000,
RLT
        Pat. No. US 6864314 Continuation-in-part of Ser. No. US 1999-318942,
        filed on 26 May 1999, ABANDONED
DT
        Utility
FS
        APPLICATION
LN.CNT 4665
INCL
        INCLM: 424/070.110
        INCLS: 526/319.000; 526/307.000; 526/260.000; 526/258.000; 510/130.000;
                 510/119.000; 510/159.000; 510/127.000; 510/122.000; 510/356.000; 510/350.000; 521/149.000; 514/772.600; 514/772.500; 514/772.400;
                 252 3; 510/109.000; 507/118.000; 162/168.100
NCL
        NCLM:
               424/070.110
                162/168.100; 252/003.000; 507/118.000; 510/109.000; 510/119.000;
        NCLS:
                 510/122.000; 510/127.000; 510/130.000; 510/159.000; 510/350.000;
                 510/356.000; 514/772.400; 514/772.500; 514/772.600; 521/149.000; 526/258.000; 526/260.000; 526/307.000; 526/319.000
IC
        IPCI
                 A61K0008-81 [I,A]; C08F0120-34 [I,A]; A61K0008-89 [I,A];
                 A61K0008-72 [I,C*]; A62D0001-00 [I,A]; C09K0008-24 [I,A];
                 C09K0008-02 [I,C*]; A61Q0005-02 [I,A]; A61Q0019-10 [I,A];
                 A61Q0009-02 [I,A]; A61K0047-32 [I,A]; C11D0003-37 [I,A];
                 C08F0120-60 [I,A]; C08F0120-00 [I,C*]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 2 OF 32 USPATFULL on STN
Full
     Text
2007:314822 USPATFULL
AN
TI
        NEW COSMETIC, PERSONAL CARE, CLEANING AGENT, AND NUTRITIONAL SUPPLEMENT
        COMPOSITIONS AND METHODS OF MAKING AND USING SAME
TN
        Lee, Sean, Karlsruhe, GERMANY, FEDERAL REPUBLIC OF
        Kessler, Susanna, Ergolding, GERMANY, FEDERAL REPUBLIC OF
Forberich, Oliver, Oberursel, GERMANY, FEDERAL REPUBLIC OF
        Buchwar, Claire, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF
        Greenspan, David C., Gainesville, FL, UNITED STATES
        SCHOTT AG, MAINZ, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)
PA
        US 20070275021 A1 20071129
PΙ
        US 2007-775615
                               A1 20070710 (11)
AΙ
        Division of Ser. No. US 2001-818466, filed on 27 Mar 2001, GRANTED, Pat.
RI.T
        No. US 7250174 Continuation-in-part of Ser. No. US 1999-456186, filed on 7 Dec 1999, ABANDONED Continuation-in-part of Ser. No. US 1999-456195, filed on 7 Dec 1999, ABANDONED Continuation-in-part of Ser. No. US 1999-456195, filed on 7 Dec 1999, ABANDONED Continuation-in-part of Ser. No. US 1999-456195,
        US 2000-192216P 20000327 (60)
PRAT
        US 2000-197162P
                               20000414 (60)
DT
        Utility
FS
        APPLICATION
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LN.CNT 4111
       INCLM: 424/401.000
       INCLS: 424/059.000; 424/065.000; 424/070.100; 424/724.000; 510/511.000
NCL
       NCLM: 424/401.000
       NCLS:
              424/059.000; 424/065.000; 424/070.100; 424/724.000; 510/511.000
              A61K0033-00 [I,A]; A61K0008-25 [I,A]; A61K0008-19 [I,C*]; A61Q0017-04 [I,A]
       TPCT
              A61K0033-00 [I,C]; A61K0033-00 [I,A]; A61K0008-19 [I,C];
       TPCR
              A61K0008-22 [I,A]; A61K0008-25 [I,A]; A61Q0001-02 [I,C*];
              A61Q0001-02 [I,A]; A61Q0001-06 [I,A]; A61Q0003-00 [I,C*];
              A6100003-00 [I,A]; A6100005-02 [I,C*]; A6100005-02 [I,A];
              A61Q0009-02 [I,C*]; A61Q0009-02 [I,A]; A61Q0011-00 [I,C*];
              A61Q0011-00 [I,A]; A61Q0015-00 [I,C*]; A61Q0015-00 [I,A]; A61Q0017-04 [I,C]; A61Q0017-04 [I,A]; A61Q0019-00 [I,C*];
              A61Q0019-00 [I,A]; A61Q0019-10 [I,C*]; A61Q0019-10 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 3 OF 32 USPATFULL on STN
Full Text
AN
       2006:130742 USPATEULL
ΤI
       Linkage of agents using microparticles
TN
       Green, Howard, Brookline, MA, UNITED STATES
Compton, Bruce J., Lexington, MA, UNITED STATES
       Corey, George D., Newton, MA, UNITED STATES
       Djian, Philippe, Paris, FRANCE
PΑ
       Pericor Science, Inc., Boston, MA, UNITED STATES (U.S. corporation)
PΙ
       US 20060110379
                          A1 20060525
A1 20050510 (11)
AΤ
       US 2005-125830
RLI
       Continuation of Ser. No. US 2000-620783, filed on 21 Jul 2000, GRANTED,
       Pat. No. US 6958148 Continuation-in-part of Ser. No. US 1999-359920,
       filed on 22 Jul 1999, GRANTED, Pat. No. US 6919076 Continuation-in-part
       of Ser. No. US 1999-234358, filed on 20 Jan 1999, GRANTED, Pat. No. US
       6267957
       US 1998-71908P
                           19980120 (60)
PRAT
       Utility
DT
FS
       APPLICATION
LN.CNT 4053
TNCI.
       INCLM: 424/094.500
       INCLS: 424/489.000; 977/906.000
       NCLM: 424/094.500
       NCLS: 424/489.000; 977/906.000
       IPCI
              A61K0038-48 [I,A]; A61K0038-43 [I,C*]; A61K0009-14 [I,A]
              A61K0038-43 [I,C]; A61K0038-48 [I,A]; A61K0009-14 [I,C];
              A61K0009-14 [I,A]; A61K0038-00 [I,C*]; A61K0038-00 [I,A];
              A61K0038-45 [I,A]; C07K0017-00 [I,C*]; C07K0017-02 [I,A];
              C07K0017-08 [I,A]; C12N0011-00 [I,C*]; C12N0011-02 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 4 OF 32 USPATFULL on STN
Full Text
       2006:64424 USPATFULL
AN
TI
       Packaging container for discharge of plurality of contents, packaging
       product including the packaging container and process for producing the
       packaging product
IN
       Mekata, Satoshi, Osaka, JAPAN
ΡI
       US 20060054634
                           A1 20060316
                            A1 20030626 (10)
AΤ
       US 2003-518696
       WO 2003-TP8074
                                20030626
                                20050721 PCT 371 date
       JP 2002-186671
                            20020626
PRAI
       JP 2002-307654
                            20020913
       JP 2003-45109
                            20030221
       JP 2003-105918
                           20030409
       Utility
FS
       APPLICATION
LN.CNT 3099
INCL
       INCLM: 222/094.000
NCL.
       NCLM: 222/094.000
IC
       IPCI
              B65D0035-22 [I,A]; B65D0035-00 [I,C*]
       IPCR
             B65D0035-00 [I,C]; B65D0035-22 [I,A]; A45D0019-00 [N,C*];
              A45D0019-00 [N,A]; B05B0011-00 [I,C*]; B05B0011-00 [I,A];
              B65D0083-14 [I,C*]; B65D0083-14 [I,A]; B65D0083-16 [I,C*];
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LN.CNT 4478

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L10 ANSWER 5 OF 32 USPATFULL on STN
Full Text
2005:270526 USPATFULL
TI
             Linkage of agents to body tissue using microparticles and
             transglutaminase
             Green, Howard, Brookline, MA, UNITED STATES
TN
             Compton, Bruce J., Lexington, MA, UNITED STATES
             Corey, George D., Newton, MA, UNITED STATES
             Djian, Philippe, Paris, FRANCE
PA
             Pericor Science, Inc., Boston, MA, UNITED STATES (U.S. corporation)
             US 6958148
                                                   B1 20051025
PΙ
             US 2000-620783
AI
                                                            20000721 (9)
             Continuation-in-part of Ser. No. US 1999-359920, filed on 22 Jul 1999,
RLI
             PENDING Continuation-in-part of Ser. No. US 1999-234358, filed on 20 Jan
             1999, Pat. No. US 6267957
             US 1998-71908P
                                                   19980120 (60)
PRAI
DT
             Utility
FS
             GRANTED
LN.CNT 4173
TNCI.
             INCLM: 424/094.500
             INCLS: 424/059.000; 424/094.630; 424/401.000; 435/016.000; 435/177.000;
                           435/193.000; 514/002.000; 530/402.000; 530/812.000
NCL
             NCLM:
                          424/094.500
             NCLS:
                         424/059.000; 424/094.630; 424/401.000; 435/016.000; 435/177.000;
                           435/193.000; 514/002.000; 530/402.000; 530/812.000
              [71
             ICM
                          A61K038-48; A61K038-00; C12N011-02; C07K017-02
             IPCI
                          A61K0038-45 [ICM, 7]; A61K0038-48 [ICS, 7]; A61K0038-43 [ICS, 7, C*];
                          A61K0038-00 [ICS, 7]; C12N0011-02 [ICS, 7]; C12N0011-00 [ICS, 7, C*];
                          C07K0017-02 [ICS,7]; C07K0017-00 [ICS,7,C*]
                          A61K0047-42 [I,C*]; A61K0047-42 [I,A]; A01N0025-10 [I,C*];
             IPCR
                          A01N0025-10 [I,A]; A01N0025-12 [I,C*]; A01N0025-12 [I,A]; A01N0025-24 [I,A]; A01N0025-24 [I,C*]; A01N008-24 [I,C*]; A0
                          A61K0009-14 [I,A]; A61K0009-16 [I,C*]; A61K0009-16 [I,A];
                          A61K0038-00 [I,C*]; A61K0038-00 [I,A]; A61K0038-43 [I,C*];
                          A61K0038-45 [I,A]; A61K0038-48 [I,A]; A61K0047-32 [I,C*];
                          A61K0047-32 [I,A]; A61P0039-00 [I,C*]; A61P0039-02 [I,A];
                          A61Q0005-00 [I,C*]; A61Q0005-00 [I,A]; A61Q0005-06 [I,C*];
                          A61Q0005-06 [I,A]; A61Q0009-04 [I,C*]; A61Q0009-04 [I,A];
A61Q0017-04 [I,C*]; A61Q0017-04 [I,A]; C07K0017-00 [I,C*];
                           C07K0017-02 [I,A]; C07K0017-08 [I,A]; C12N0011-00 [I,C*];
                           C12N0011-02 [I,A]
EXF
             424/94.5; 424/94.63; 424/401; 424/59; 435/16; 435/177; 435/193; 514/2;
             530/403; 530/812
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 6 OF 32 USPATFULL on STN
Full
         Text
2005:131808 USPATFULL
AN
TI
             Block polymers, compositions and methods of use for foams, laundry
             detergents, shower rinses and coagulants
TN
             Yeung, Dominic Wai-Kwing, Mississauga, CANADA
             Bergeron, Vance, Antony, FRANCE
             Bodet, Jean-Francois, Mason, OH, UNITED STATES
             Sivik, Mark Robert, Ft. Mitchell, KY, UNITED STATES
Kluesener, Bernard William, Harrison, OH, UNITED STATES
             Scheper, William Michael, Lawrenceburg, IN, UNITED STATES
             RHODIA, INC., Cranbury, NJ, UNITED STATES, 08512 (non-U.S. corporation) US 20050113272 Al 20050526
PA
PТ
             US 7335700 B2 20005025

US 2005-25967 A1 20050103 (11)

Continuation of Ser. No. US 2000-698149, filed on 30 Oct 2000, GRANTED,

Pat. No. US 6864311 Continuation-in-part of Ser. No. US 1999-318942,
AΙ
RLI
             filed on 26 May 1999, ABANDONED
             Utility
             APPLICATION
```

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INCL
        INCLM: 510/235.000
NCL.
       NCLM: 525/091.000; 510/235.000
       NCLS:
              524/762.000; 524/808.000; 525/089.000; 525/329.200; 525/330.500
TC
        ICM
               C11D001-00
        IPCI
               C11D0001-00 [ICM, 7]
        IPCI-2 C08F0012-28 [I,A]; C08F0012-00 [I,C*]; C08K0005-16 [I,A];
               C08K0005-00 [I,C*]
               C08F0012-00 [I,C]; C08F0012-28 [I,A]; A61K0008-72 [I,C*];
        TPCR
               A61K0008-90 [I,A]; A61Q0005-02 [I,C*]; A61Q0005-02 [I,A];
               A6100019-10 [I,C*]; A6100019-10 [I,A]; C08F0220-00 [I,C*];
               C08F0220-34 [I,A]; C08F0293-00 [I,C*]; C08F0293-00 [I,A];
               C08K0005-00 [I,C]; C08K0005-16 [I,A]; C08L0053-00 [I,C*]; C08L0053-00 [I,A]; C11D0001-00 [I,C*]; C11D0001-00 [I,A];
               C11D0003-37 [I,C*]; C11D0003-37 [I,A]; D21H0021-10 [I,C*];
               D21H0021-10 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 7 OF 32 USPATFULL on STN
     Text
AN
        2005:59196 USPATFULL
ΤI
        Block polymers, compositions and methods of use for foams, laundry
        detergents, shower rinses and coagulants
IN
        Yeung, Dominic Wai-Kwing, 3661 Golden Orchard Drive, Mississauga,
        Ontario, CANADA L4Y 3J2
        Bergeron, Vance, 118 rue Saint Exupery, Antony, FRANCE 92160
        Bodet, Jean-Francois, 5067 Plantation Ct., Mason, OH, United States
        Sivik, Mark Robert, 2434 Sheffield Ct., Ft. Mitchell, KY, United States
        41014
       Kluesener, Bernard William, 11619 New Biddinger Rd., Harrison, OH,
       United States 45030
        Scheper, William Michael, 2393 Picnic Woods Dr., Lawrenceburg, IN,
        United States 47025
ΡI
       US 6864314
                                  20050308
ΑI
       US 2000-698149
                                   20001030 (9)
RLI
       Continuation-in-part of Ser. No. US 1999-318942, filed on 26 May 1999,
       now abandoned
DT
       Utility
FS
        GRANTED
LN.CNT 4704
INCL
        INCLM: 525/091.000
        TNCLS: 525/089 000, 525/230.000, 525/329.900, 525/330.500, 524/762.000, 524/808.000; 524/815.000; 523/418.000; 523/429.000; 521/030.000; 521/031.000; 521/032.000; 526/310.000; 526/312.000; 526/320.000;
                526/323.000; 424/070.270
NCL
       NCLM:
               525/091.000
               424/070.270; 521/030.000; 521/031.000; 521/032.000; 523/418.000;
       NCLS:
               523/429.000; 524/762.000; 524/808.000; 524/815.000; 525/089.000;
               525/230.000; 525/329.900; 525/330.500; 526/310.000; 526/312.000;
               526/320.000; 526/323.000
IC
               C08F012-28
        TCM
        ICS
               C08K005-16; A61K007-11
        IPCI
               C08F0012-28 [ICM, 7]; C08F0012-00 [ICM, 7, C*]; C08K0005-16 [ICS, 7];
               C08K0005-00 [ICS,7,C*]; A61K0007-11 [ICS,7]
               A01C0001-00 [I,C*]; A01C0001-08 [I,A]; A01N0025-16 [I,C*];
        TPCR
               A01N0025-16 [I,A]; A61K0008-00 [I,C*]; A61K0008-00 [I,A]; A61K0008-30 [I,C*]; A61K0008-37 [I,A]; A61K0008-44 [I,A];
               A61K0008-46 [I,A]; A61K0008-72 [I,C*]; A61K0008-89 [I,A];
               A61K0008-891 [I,A]; A61K0008-90 [I,A]; A61Q0005-02 [I,C*];
               A61Q0005-02 [I,A]; A61Q0019-10 [I,C*]; A61Q0019-10 [I,A];
               A62D0001-00 [I,C*]; A62D0001-02 [I,A]; A62D0001-04 [I,A];
               C08F0012-00 [I,C*]; C08F0012-28 [I,A]; C08F0220-00 [I,C*];
               C08F0220-34 [I,A]; C08F0293-00 [I,C*]; C08F0293-00 [I,A];
               C08K0005-00 [I,C*]; C08K0005-16 [I,A]; C08L0053-00 [I,C*];
               C08L0053-00 [I,A]; C11D0001-66 [I,C*]; C11D0001-66 [I,A]; C11D0001-88 [I,C*]; C11D0001-88 [I,A]; C11D0003-00 [I,C*];
               C11D0003-00 [I,A]; C11D0003-37 [I,C*]; C11D0003-37 [I,A];
               C11D0003-39 [I,C*]; C11D0003-39 [I,A]; C11D0003-395 [I,C*];
               C11D0003-395 [I,A]; C11D0003-40 [I,C*]; C11D0003-42 [I,A];
               D06L0001-00 [I,C*]; D06L0001-12 [I,A]; D21H0017-00 [I,C*];
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D21H0017-45 [I,A]; D21H0021-10 [I,C*]; D21H0021-10 [I,A]
EXF
       525/91; 525/89; 525/230; 525/329.9; 525/330.5; 524/762; 524/808;
       524/815; 524/820; 523/418; 523/429; 521/30; 521/31; 521/32; 526/310;
       526/312; 526/320; 526/323; 424/70.27
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 8 OF 32 USPATFULL on STN
     Text
AN
       2004:214981 USPATFULL
ΤI
       Shave gel products
       Manivannan, Gurusamy, Maryland Heights, MO, UNITED STATES
       Novikov, Alexander, Framingham, MA, UNITED STATES
       Thong, Stephen, Needham, MA, UNITED STATES
       Barnet, Alfred, Hingham, MA, UNITED STATES
       Xu, Yun, Andover, MA, UNITED STATES
      McLaughlin, Ronald, Medford, MA, UNITED STATES
ΡI
       US 20040166086
                        A1 20040826
ΑI
      US 2003-720531
                          A1 20031125 (10)
RLI
       Continuation-in-part of Ser. No. US 2003-371619, filed on 21 Feb 2003,
       PENDING
DT
       Utility
       APPLICATION
FS
LN.CNT 708
INCL
       INCLM: 424/073.000
NCL
       NCLM: 424/073.000
IC
       [7]
       ICM
              A61K007-15
       IPCI
              A61K0007-15 [ICM, 7]
       IPCR
              A61K0008-04 [I,C*]; A61K0008-04 [I,A]; A61K0008-19 [I,C*];
              A61K0008-22 [I,A]; A61K0008-30 [I,C*]; A61K0008-46 [I,A];
              A61Q0009-02 [I,C*]; A61Q0009-02 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 9 OF 32 USPATFULL on STN
Full Text
AN 2004:214980 USPATFULL
      Manivannan, Gurusamy, North Chelmsford, MA, UNITED STATES
TN
       Novikov, Alexander, Framingham, MA, UNITED STATES
       Thong, Stephen, Needham, MA, UNITED STATES
       Barnet, Alfred, Hingham, MA, UNITED STATES
       Xu, Yun, Andover, MA, UNITED STATES
ΡI
       US 20040166085
                        A1 20040826
A1 20030221 (10)
       US 2003-371619
ΑI
       Utility
FS
       APPLICATION
LN.CNT 596
INCL
       INCLM: 424/073.000
NCL
       NCLM: 424/073.000
IC
       [7]
       ICM
              A61K007-15
       IPCI
              A61K0007-15 [ICM, 7]
              A61K0008-04 [I,C*]; A61K0008-04 [I,A]; A61K0008-19 [I,C*];
       TPCR
              A61K0008-22 [I,A]; A61K0008-30 [I,C*]; A61K0008-46 [I,A];
              A61Q0009-02 [I,C*]; A61Q0009-02 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 10 OF 32 USPATFULL on STN
Ful
    Text
       2002:294312 USPATFULL
AN
       External compositions for skin comprising sphingoglycolipid
       Murata, Katsumi, Tokyo, JAPAN
       Nozawa, Takashi, Tokyo, JAPAN
       Hara, Hisako, Tokyo, JAPAN
       Asai, Michiki, Tokyo, JAPAN
       Wakayama, Sachio, Tokyo, JAPAN
PA
      KIBUN FOOD CHEMIFA CO., LTD., Minato-ku, Tokyo, JAPAN, 105-0004
       (non-U.S. corporation)
      US 20020164351
                           A1 20021107
       US 6514744
                           B2 20030204
AΤ
      US 2001-12510
                          A1 20011212 (10)
RLT
      Division of Ser. No. US 1998-84394, filed on 27 May 1998, PATENTED
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PRAI
      JP 1997-141768
      JP 1997-141769
                            19970530
      JP 1997-141770
                            19970530
       JP 1997-141771
                            19970530
       JP 1998-9963
       JP 1998-61749
                            19980312
       Utility
FS
       APPLICATION
LN.CNT 1298
TNCI.
       INCLM: 424/195.150
       INCLS: 435/254.100
       NCLM: 435/252.100; 424/195.150
NCL
       NCLS: 435/254.100; 435/255.100
       [7]
       ICM
              A61K035-84
       TCS
              C12N001-18
       IPCI
              A61K0035-84 [ICM, 7]; C12N0001-18 [ICS, 7]
       IPCI-2 C12N0001-20 [ICM, 7]; C12N0001-14 [ICS, 7]
       IPCR
             A61K0008-02 [I,C*]; A61K0008-02 [I,A]; A61K0008-30 [I,C*];
              A61K0008-68 [I,A]; A61K0008-96 [I,C*]; A61K0008-97 [I,A];
              A61K0008-99 [I,A]; A61K0036-06 [I,C*]; A61K0036-06 [I,A]; A61Q0001-02 [I,C*]; A61Q0001-02 [I,A]; A61Q0001-04 [I,A];
              A61Q0001-06 [I,A]; A61Q0001-08 [I,A]; A61Q0001-10 [I,A];
              A61Q0003-02 [I,C*]; A61Q0003-02 [I,A]; A61Q0005-00 [I,C*];
              A6100005-00 [I,A]; A6100005-02 [I,C*]; A6100005-02 [I,A];
              A61Q0005-10 [I,C*]; A61Q0005-10 [I,A]; A61Q0009-02 [I,C*];
              A61Q0009-02 [I,A]; A61Q0011-00 [I,C*]; A61Q0011-00 [I,A];
              A6100019-00 [I,C*]; A6100019-00 [I,A]; A6100019-02 [I,C*]; A6100019-02 [I,A]; A6100019-10 [I,C*]; A6100019-10 [I,A];
              C12N0001-14 [I,C*]; C12N0001-14 [I,A]; C12N0001-20 [I,C*];
              C12N0001-20 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 11 OF 32 USPATFULL on STN
AN
       2002:164425 USPATFULL
ΤI
       New cosmetic, personal care, cleaning agent, and nutritional supplement
       compositions and methods of making and using same
TN
       Lee, Sean, Karlsruhe, GERMANY, FEDERAL REPUBLIC OF
       Kessler, Susanna, Ergolding, GERMANY, FEDERAL REPUBLIC OF
       Forberich, Oliver, Oberursel, GERMANY, FEDERAL REPUBLIC OF
       Buchwar, Claire, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF
       Greenspan, David C., Grainsville, FL, UNITED STATES
       US 20020086039 A1 20020704
US 7250174 B2 20070731
PΤ
       US 2001-818466
                           A1 20010327 (9)
ΑТ
PRAI
       US 2000-192261P
                           20000327 (60)
       US 2000-197162P
                           20000414 (60)
DT
       Utility
       APPLICATION
FS
LN.CNT 4825
INCL
       INCLM: 424/401.000
       INCLS: 424/063.000; 424/064.000
NCL
       NCLM: 424/401.000
       NCLS: 424/064.000; 424/069.000; 424/070.100; 424/400.000; 424/404.000;
              424/063.000
       [7]
       TCM
              A61K007-021
       ICS
              A61K007-025; A61K007-00
       IPCI
              A61K0007-021 [ICM, 7]; A61K0007-025 [ICS, 7]; A61K0007-00 [ICS, 7]
       IPCI-2 A61K0006-00 [I,A]; A61K0009-00 [I,A]; A61K0025-34 [I,A];
              A61K0008-00 [I,A]; A61K0008-18 [I,A]
              A61K0006-00 [I,C]; A61K0006-00 [I,A]; A61K0008-00 [I,C];
       TPCR
              A61K0008-00 [I,A]; A61K0008-18 [I,C]; A61K0008-18 [I,A];
              A61K0008-19 [I,C*]; A61K0008-22 [I,A]; A61K0008-25 [I,A];
              A61K0009-00 [I,C]; A61K0009-00 [I,A]; A61Q0001-02 [I,C*];
              A61Q0001-02 [I,A]; A61Q0001-06 [I,A]; A61Q0003-00 [I,C*];
              A61Q0003-00 [I,A]; A61Q0005-02 [I,C*]; A61Q0005-02 [I,A];
              A61Q0009-02 [I,C*]; A61Q0009-02 [I,A]; A61Q0011-00 [I,C*];
              A61Q0011-00 [I,A]; A61Q0015-00 [I,C*]; A61Q0015-00 [I,A];
              A61Q0017-04 [I,C*]; A61Q0017-04 [I,A]; A61Q0019-00 [I,C*];
              A6100019-00 [I,A]; A6100019-10 [I,C*]; A6100019-10 [I,A]
```

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L10 ANSWER 12 OF 32 USPATFULL on STN
Full Text
AN
       2002:12038 USPATFULL
TT
       EXTERNAL COMPOSITION FOR SKIN COMPRISING SPHINGOGLYCOLIPID
       MURATA, KATSUMI, TOKYO, JAPAN
NOZAWA, TAKASHI, TOKYO, JAPAN
IN
       HARA, HISAKO, TOKYO, JAPAN
       ASAI, MICHIKI, TOKYO, JAPAN
       WAKAYAMA, SACHIO, TOKYO, JAPAN
                            A1 20020117
B2 20020219
A1 19980527 (9)
PΙ
       US 20020006414
       US 6348201
       US 1998-84394
       JP 1997-141768
PRAI
                            19970530
       JP 1997-141769
                            19970530
       JP 1997-141770
                            19970530
       JP 1997-141771
                            19970530
       JP 1998-9963
                            19980121
       JP 1998-61749
                            19980312
       Utility
       APPLICATION
FS
IN.CNT 1372
INCL
       INCLM: 424/400.000
NCL
       NCLM: 424/401.000; 424/400.000
       NCLS: 435/822.000; 514/025.000; 536/017.900
       [7]
       TCM
              A61K009-00
       IPCI
              A61K0009-00 [ICM, 7]
       IPCI-2 A61K0007-00 [ICM, 7]
       IPCR
              A61K0008-02 [I,C*]; A61K0008-02 [I,A]; A61K0008-30 [I,C*];
              A61K0008-68 [I,A]; A61K0008-96 [I,C*]; A61K0008-97 [I,A];
              A61K0008-99 [I,A]; A61Q0001-02 [I,C*]; A61Q0001-02 [I,A];
              A61Q0001-04 [I,A]; A61Q0001-06 [I,A]; A61Q0001-08 [I,A];
              A61Q0001-10 [I,A]; A61Q0005-00 [I,C*]; A61Q0005-00 [I,A]; A61Q0005-02 [I,C*]; A61Q0005-02 [I,C*]; A61Q0005-02 [I,A]; A61Q0005-10 [I,C*];
               A61Q0005-10 [I,A]; A61Q0009-02 [I,C*]; A61Q0009-02 [I,A];
              A61Q0011-00 [I,C*]; A61Q0011-00 [I,A]; A61Q0019-00 [I,C*];
              A61Q0019-00 [I,A]; A61Q0019-02 [I,C*]; A61Q0019-02 [I,A];
               A61Q0019-10 [I,C*]; A61Q0019-10 [I,A]; C12N0001-14 [I,C*];
              C12N0001-14 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 13 OF 32 USPATFULL on STN
Full Text
       2001:39978 USPATFULL
AN
       Surgery plume filter device and method of filtering
ΤI
IN
       Skalla, Randy Marc, Leesburg, GA, United States
       Ahrens, Carl Austin, Cincinnati, OH, United States
       Garner, Jr., Robert Keith, Miamisburg, OH, United States
       Wilkinson, Bradley Carl, Cincinnati, OH, United States
PA
       EnviroSurgical, Inc., Cincinnati, OH, United States (U.S. corporation)
PΤ
       US 6203762
                            B1 20010320
AΙ
       US 1999-327023
                                 19990607 (9)
RLI
       Continuation of Ser. No. US 1996-657156, filed on 3 Jun 1996, now
       patented, Pat. No. US 5910291 Continuation-in-part of Ser. No. US
       1994-198480, filed on 18 Feb 1994, now patented, Pat. No. US 5522808
       Division of Ser. No. US 1992-851862, filed on 16 Mar 1992, now patented, Pat. No. US 5288469
       Utility
FS
       Granted
LN.CNT 1095
TNCL.
       INCLM: 422/171.000
       INCLS: 422/169.000; 422/170.000; 422/122.000; 096/134.000; 096/341.000;
               261/DIG.026
NCL
       NCLM:
              422/171.000
       NCLS:
              096/134.000; 096/341.000; 261/DIG.026; 422/122.000; 422/169.000;
               422/170.000
IC
       ICM
              B01D050-00
       ICS
              B01D053-00; A61L009-00
       TPCT
              B01D0050-00 [ICM, 7]; B01D0053-00 [ICS, 7]; A61L0009-00 [ICS, 7]
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TPCR
                          A61B0018-00 [I,A]; A61B0018-00 [I,C*]; A61L0009-16 [I,A];
                          A61L0009-16 [I,C*]; B01D0046-24 [I,A]; B01D0046-24 [I,C*];
                           B01D0053-04 [I,A]; B01D0053-04 [I,C*]; B01D0053-46 [I,C*];
             BOID0053-54 [I,C*]; BOID0053-59 [I,A]; BOID0053-51 [I,A]; BOID0053-72 [I,A]; BOID0053-72 [I,A]; BOID0053-72 [I,A]; BOID0053-72 [I,A]; BOID0053-72 [I,A]; BOID0053-73 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 [I,A]; BOID0053-74 
EXF
L10 ANSWER 14 OF 32 USPATFULL on STN
AN
             1999:85240 USPATFULL
TΙ
             Protocol for simulated natural biofilm formation
TM
             Bakich, Shannon L., Racine, WI, United States
             Gipp, Mark M., Mount Pleasant, WI, United States
             S.C. Johnson & Son, Inc., Racine, WI, United States (U.S. corporation)
PΙ
             US 5928889
                                                           19990727
ΑI
             US 1998-23520
                                                           19980213 (9)
DT
             Utility
FS
             Granted
LN.CNT 441
INCL
             INCLM: 435/029.000
             INCLS: 435/289.100; 435/970.000
NCT.
             NCLM: 435/029.000
             NCLS: 435/289.100; 435/970.000
             161
             ICM
                          C120001-02
             ICS
                          G01N033-53
             IPCI
                          C12Q0001-02 [ICM, 6]; G01N0033-53 [ICS, 6]
                          C12M0001-14 [I,C*]; C12M0001-14 [I,A]
             TPCR
             435/29; 435/289.1; 435/970
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 15 OF 32 USPATFULL on STN
Full Text
             1999:65049 USPATFULL
AN
             Surgery plume filter device and method of filtering
TΙ
IN
             Skalla, Randy Marc, Leesburg, GA, United States
Ahrens, Carl Austin, Cincinnati, OH, United States
Garner, Jr., Robert Keith, Miamisburg, OH, United States
             Wilkinson, Bradley Carl, Cincinnati, OH, United States
PΑ
             EnviroSurgical, Inc., Springfield, OH, United States (U.S. corporation)
ΡI
             US 5910291
                                                           19990608
AΙ
             US 1996-657156
                                                           19960603 (8)
RLI
             Continuation-in-part of Ser. No. US 1994-198480, filed on 18 Feb 1994,
             now patented, Pat. No. US 5522808 which is a division of Ser. No. US 1992-851862, filed on 16 Mar 1992, now patented, Pat. No. US 5288469
DT
             Utility
FS
             Granted
LN.CNT 1083
INCL
             INCLM: 422/171.000
             INCLS: 422/169.000; 422/170.000; 422/122.000; 055/233.000; 096/134.000;
                           096/341.000; 261/DIG.026
NCL
             NCLM:
                           422/171.000
                          096/134.000; 096/296.000; 096/341.000; 261/DIG.026; 422/122.000;
             NCLS:
                           422/169.000: 422/170.000
              161
             ICM
                          B01D050-00
             ICS
                          B01D053-00; A61L009-00
             IPCI
                           B01D0050-00 [ICM,6]; B01D0053-00 [ICS,6]; A61L0009-00 [ICS,6]
                           B01D0046-24 [I,C*]; B01D0046-24 [I,A]; B01D0053-04 [I,C*];
             IPCR
                           B01D0053-04 [I,A]; B01D0053-46 [I,C*]; B01D0053-54 [I,C*];
                           B01D0053-58 [I,A]; B01D0053-72 [I,A]
             422/168; 422/169; 422/171; 422/4; 422/5; 422/122; 422/170; 096/134;
             096/150; 096/341; 055/233; 055/316; 055/255; 055/357; 055/247;
             261/DIG.26: 604/317: 604/319
L10 ANSWER 16 OF 32 USPATFULL on STN
         Text
AN
             1999:50845 USPATFULL
TI
             Formulations of magnesium compounds for local application and methods of
             treatment using the same
TN
             Marx, Alvin J., 511 Mirepoix, San Antonio, TX, United States 78232-1951
             US 5898037
                                                           19990427
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PΤ

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AΤ
       US 1996-678151
                                19960711 (8)
RLT
       Continuation of Ser. No. US 1994-311599, filed on 23 Sep 1994, now
       abandoned which is a continuation-in-part of Ser. No. US 1992-975786,
       filed on 13 Nov 1992, now abandoned
       Utility
FS
       Granted
LN.CNT 881
       INCLM: 424/049.000
TNCI.
       INCLS: 424/054.000; 424/709.000
NCL
       NCLM: 424/049.000
       NCLS: 424/054.000; 424/709.000
       [6]
              A61K007-16
       ICM
              A61K007-22; A61K033-04
              A61K0007-16 [ICM, 6]; A61K0007-22 [ICS, 6]; A61K0033-04 [ICS, 6]
       IPCI
       IPCR
              A61K0008-19 [I,C*]; A61K0008-19 [I,A]; A61K0033-06 [I,C*];
              A61K0033-06 [I,A]; A61Q0011-00 [I,C*]; A61Q0011-00 [I,A];
              A61Q0019-00 [I,C*]; A61Q0019-00 [I,A]
       424/49; 424/54; 424/709
EYE
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 17 OF 32 USPATFULL on STN
Full
    Text
AN
       97:68148 USPATFULL
TI
       Personal product compositions comprising heteroatom containing alkyl
       aldonamide compounds
TN
       Vermeer, Robert, Nutley, NJ, United States
       Lever Brothers Company, Division of Conopco, Inc., New York, NY, United
PA
       States (U.S. corporation)
       US 5653970
                                19970805
       US 1994-352008
ΑI
                                19941208 (8)
DT
       Utility
FS
       Granted
LN.CNT 6060
       INCLM: 424/070.240
INCL
       INCLS: 424/070.100; 514/847.000; 510/126.000; 510/135.000
NCL
       NCLM: 424/070.240
       NCLS:
             424/070.100; 510/126.000; 510/135.000; 514/847.000
       161
       ICM
              A61K007-07
       ICS
              A61K007-075
       IPCI
              A61K0007-07 [ICM, 6]; A61K0007-075 [ICS, 6]
       IPCR
              A61K0008-30 [I,C*]; A61K0008-60 [I,A]; A61Q0005-02 [I,C*];
              A61Q0005-02 [I,A]; A61Q0009-02 [I,C*]; A61Q0009-02 [I,A]; A61Q0009-04 [I,C*]; A61Q0009-04 [I,C*]; A61Q0009-05 [I,C*];
              A61Q0015-00 [I,A]; A61Q0017-04 [I,C*]; A61Q0017-04 [I,A];
              A61Q0019-00 [I,C*]; A61Q0019-00 [I,A]; A61Q0019-10 [I,C*];
              A6100019-10 [I.A]
EXF
       424/401; 424/70.31; 424/70.19; 424/70.24
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 18 OF 32 USPATFULL on STN
Full
    Text
AN
       84:58202 USPATFULL
TI
       Preparations containing methylsulfonvlmethane and methods of use and
       purification
TN
       Herschler, Robert J., 3080 NW. 8th St., Camas, WA, United States 98607
PT
       US 4477469
                                19841016
ΑI
       US 1981-277592
                                19810626 (6)
       Division of Ser. No. US 1979-71068, filed on 30 Aug 1979, now patented,
RLI
       Pat. No. US 4296104
       Utility
FS
       Granted
LN.CNT 822
       INCLM: 424/322.000
INCL
NCL
       NCLM: 514/588.000
IC
       [3]
       ICM
              A61K031-17
       IPCI
              A61K0031-17 [ICM, 3]
       IPCR
              A61K0031-095 [I,C*]; A61K0031-10 [I,A]; A61K0031-17 [I,C*];
              A61K0031-17 [I,A]; A61K0031-18 [I,C*]; A61K0031-18 [I,A];
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A61K0033-14 [I,C*]; A61K0033-14 [I,A]; A61K0008-30 [I,C*];

```
A61K0008-46 [I.A]; A6100003-00 [I.C*]; A6100003-00 [I.A];
               A61Q0019-00 [I,C*]; A61Q0019-00 [I,A]
       424/322
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 19 OF 32 USPATFULL on STN
       82:62978 USPATFIILI.
AN
       Use of calcium metasilicate (wollastonite) as a formaldehyde suppressant
       for urea formaldehyde resins
       Wawzonek, Stanley, 2014 Ridgeway Dr., Iowa City, IA, United States
       52240
       US 4366264
                                 19821228
PT
       US 1982-369148
AI
                                 19820416 (6)
       Utility
FS
       Granted
LN.CNT 464
       INCLM: 521/122.000
INCL
       INCLS: 521/187.000; 521/188.000; 524/456.000; 524/597.000
NCL
       NCLM: 521/122.000
       NCLS:
              521/187.000; 521/188.000; 524/456.000; 524/597.000
       131
       ICM
               C08J009-30
               C08J0009-30 [ICM,3]; C08J0009-00 [ICM,3,C*]
       IPCI
       IPCR
               C08J0009-00 [I,C*]; C08J0009-00 [I,A]; C08K0003-00 [I,C*];
               C08K0003-34 [I,A]
EXF 521/122; 521/187; 521/188; 524/456; 524/597 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 20 OF 32 USPATFULL on STN
Full Text
       81:57504 USPATFULL
AN
ΤI
       Methylsulfonylmethane and methods of use
       Herschler, Robert J., 3080 NW. 8th St., Camas, WA, United States 98607
PΙ
       US 4296130
                                 19811020
ΑI
       US 1979-71068
                                 19790830 (6)
DT
       Utility
FS
       Granted
IN. CNT 734
INCL
       INCLM: 424/337.000
NCL
       NCLM: 514/711.000
IĊ
       [3]
       ICM
               A61K031-10
       IPCI
               A61K0031-10 [ICM,3]; A61K0031-095 [ICM,3,C*]
       IPCR
               A61K0008-00 [I,C*]; A61K0008-00 [I,A]; A61K0008-19 [I,C*];
               A61K0008-20 [I,A]; A61K0008-30 [I,C*]; A61K0008-30 [I,A]; A61K0008-34 [I,A]; A61K0008-40 [I,A]; A61K0008-46 [I,A];
               A61K0008-60 [I,A]; A61K0008-72 [I,C*]; A61K0008-86 [I,A];
               A61K0009-06 [I,C*]; A61K0009-06 [I,A]; A61K0009-08 [I,C*];
               A61K0009-08 [I,A]; A61K0031-045 [I,C*]; A61K0031-047 [I,A];
               A61K0031-095 [I,C*]; A61K0031-10 [I,A]; A61K0031-17 [I,C*]; A61K0031-17 [I,A]; A61K0033-14 [I,C*]; A61K0033-14 [I,A];
               A61P0007-00 [I,C*]; A61P0007-08 [I,A]; A61Q0003-00 [I,C*];
               A61Q0003-00 [I,A]; A61Q0003-02 [I,C*]; A61Q0003-02 [I,A];
               A61Q0003-04 [I,C*]; A61Q0003-04 [I,A]; A61Q0005-00 [I,C*];
               A61Q0005-00 [I,A]; A61Q0005-02 [I,C*]; A61Q0005-02 [I,A];
               A61Q0019-00 [I,C*]; A61Q0019-00 [I,A]
EXE
       424/337
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 21 OF 32 USPATFULL on STN
     Text
AN
        77:43415 USPATFULL
       Thermogenic system
       Frump, John Adams, Terre Haute, IN, United States
ΤN
       Hunsucker, Jerry Hoyt, Terre Haute, IN, United States
PA
       IMC Chemical Group, Inc., Terre Haute, IN, United States (U.S.
       corporation)
PT
       US 4042520
                                19770816
       US 1976-655321
                                19760205 (5)
AΙ
       Utility
FS
       Granted
```

```
LN.CNT 493
       INCLM: 252/070.000
       INCLS: 126/263.000; 252/090.000; 252/188.300R; 260/307.000F;
              260/307.000FA
NCL
       NCLM:
              252/070.000
       NCLS:
              126/263.010; 252/183.130; 510/138.000; 510/158.000; 548/215.000
       [2]
       TCM
              C09K003-00
       TCS
              C09K003-18: C09K005-00
       IPCI
              C09K0003-00 [ICM.21; C09K0003-18 [ICS.21; C09K0005-00 [ICS.21
              A61K0008-02 [I,C*]; A61K0008-02 [I,A]; A61K0008-30 [I,C*];
       IPCR
              A61K0008-49 [I,A]; A61Q0009-02 [I,C*]; A61Q0009-02 [I,A];
              A61Q0019-10 [I,C*]; A61Q0019-10 [I,A]; C09K0003-18 [I,C*];
              C09K0003-18 [I,A]; C09K0003-30 [I,C*]; C09K0003-30 [I,A];
              C09K0005-00 [I,C*]; C09K0005-16 [I,A]
       252/90; 252/188.3; 252/70; 252/188.3R; 424/45; 424/47; 424/73; 126/263;
EXE
       260/307F; 260/307FA; 044/3; 044/3R; 149/37; 149/119; 244/134R
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 22 OF 32 USPATFULL on STN
Full Text
       75:38713 USPATFULL
AN
ΤI
       Aerosol package of product containing liquified gas
IN
       Laauwe, Robert H., Franklin Lakes, NJ, United States
       US 3896970
PI
                                19750729
ΑI
       US 1973-409689
                                19731026 (5)
       Division of Ser. No. US 1972-270560, filed on 10 Jul 1972, now patented,
RLI
       Pat. No. US 3788521
DT
       Utility
FS
       Granted
LN.CNT 771
       INCLM: 222/094.000
INCL
NCL
       NCLM: 222/094.000
IC
       [2]
       ICM
              B65D035-24
       IPCI
              B65D0035-24 [ICM, 2]
       IPCR B65D0083-14 [I,C*]; B65D0083-14 [I,A] 222/94; 222/136; 222/145; 222/402.24; 222/402.18; 222/193; 222/95;
EYE
       222/386.5; 222/1
L10 ANSWER 23 OF 32 USPATFULL on STN
Full Text
AN
       75:8529 USPATFULL
       NON-PRESSURIZED PACKAGE CONTAINING SELF-HEATING PRODUCTS
       Schmitt, William H., Elmhurst, IL, United States
       Alberto Culver Company, Melrose Park, IL, United States (U.S.
PA
       corporation)
                                19750218
PT
       US 3866800
       US 1969-798628
                                19690212 (4)
ΑI
       Utility
DT
       Granted
FS
LN.CNT 734
       INCLM: 222/094.000
TNCL.
       INCLS: 252/188.300; 424/045.000; 424/047.000
NCT.
       NCLM: 222/094.000
       NCLS: 252/183.140; 424/045.000; 424/047.000
       [11]
       TCM
              B65D035-24
       IPCI
              B65D0035-24 [ICM, 1]
       IPCR B65D0035-00 [I,C*]; B65D0035-22 [I,A]
222/94; 222/136; 222/145; 424/40; 424/44; 424/45; 424/47; 252/305;
EYE
       252/188 3
L10 ANSWER 24 OF 32 USPATFULL on STN
Full
    Text
AN
       74:5585 USPATFULL
TI
       AEROSOL PACKAGE
       Laauwe, Robert H., 237 Ridge Rd., Franklin Lakes, NJ, United States
       07417
PΤ
       US 3788521
                                19740129
AΙ
      US 1972-270560
                                19720710 (5)
      Utility
```

```
Granted
IN. CNT 783
INCL
       INCLM: 222/094.000
NCL
       NCLM: 222/094.000
        TCM
               B65D035-24
       IPCI
              B65D0035-24 [ICM, 1]
       IPCR B65D0083-14 [I,C*]; B65D0083-14 [I,A] 222/94; 222/135; 222/386.5; 222/95; 222/389; 424/45; 424/47
L10 ANSWER 25 OF 32 USPATOLD on STN
Full Text
       1974:66209 USPATOLD
AN
       THERMOGENIC SYSTEMS
TI
IN
       MARGOLIS E
PA
       DART INDUSTRIES INC.
PΙ
       US 3804771
                                 19740416
       US 1972-288861
ΑI
                                 19720901
PRAI
       US 1972-288861
                                 19720913
DT
       Utility
FS
       GRANTED
LN.CNT 442
INCL
       INCLM: 252/070.000
       INCLS: 126/263.010; 252/183.130; 424/047.000; 510/131.000; 510/158.000;
               510/365.000; 510/386.000
       NCLM:
               252/070.000
               126/263.010; 252/183.130; 424/047.000; 510/131.000; 510/158.000;
       NCLS:
               510/365.000; 510/386.000
       IPCR
               A61K0008-02 [I,C*]; A61K0008-02 [I,A]; A61Q0009-02 [I,C*];
               A6100009-02 [I,A]; A6100019-10 [I,C*]; A6100019-10 [I,A];
               C09K0005-00 [I,C*]; C09K0005-16 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 26 OF 32 USPATOLD on STN
    l Text
AN
        1972:58646 USPATOLD
       SELF HEATING LATHER
TM
       BODEN HERBERT
       ANTONELLI JOSEPH A
PA
       E. I. DU PONT DE NEMOURS AND COMPANY
                            A 19720104
ΡI
       US 3632516
ΑI
       US 1968-762531
                                 19680901
PRAI
       US 1968-762531
                                 19680925
DT
       Utility
       GRANTED
LN.CNT 570
INCL
       INCLM: 510/372,000
       INCLS: 222/146.300; 252/183.140; 424/073.000; 510/108.000; 510/120.000;
               510/140.000; 510/406.000
NCL
       NCLM:
               510/372,000
               222/146.300; 252/183.140; 424/073.000; 510/108.000; 510/120.000; 510/140.000; 510/406.000
A61K0008-02 [I,C*]; A61K0008-02 [I,A]; A61Q0009-02 [I,C*];
       NCLS:
       IPCR
               A61Q0009-02 [I,A]; C11D0009-04 [I,C*]; C11D0009-42 [I,A];
               C11D0017-00 [I,C*]; C11D0017-00 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 27 OF 32 USPATOLD on STN
Full
    Text
       1963:41424 USPATOLD
AN
       Protective coating
       SCHUSTER LUDWIG K
       BALDI JR ALFONSO L
PТ
       US 3112231
                                 19631126
       US 1957-666852
                                 19570620
AΤ
PRAI
       US 1957-666852
                                 19570620
DT
       Utility
FS
       GRANTED
LN.CNT 720
INCL
       INCLM: 148/267.000
NCL
       NCLM: 148/267.000
       IPCR C23C0022-73 [I,C*]; C23C0022-74 [I,A]
```

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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 28 OF 32 USPATOLD on STN
Full Text
AN
        1953:22984 USPATOLD
        One step photographic transfer process
TI
        LAND EDWIN H
PT
       US 2647056
                              A 19530728
       US 1948-7795
                                  19480212
AΤ
PRAI
       US 1948-7795
                                  19480212
       Utility
       GRANTED
FS
LN.CNT 1415
INCL
        INCLM: 430/141.000
        INCLS: 430/149.000; 430/244.000; 430/403.000; 430/404.000
NCL
        NCLM:
               430/141.000
        NCLS:
               430/149.000; 430/244.000; 430/403.000; 430/404.000
               G03C0008-00 [I,C*]; G03C0008-42 [I,A]
        IPCR
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 29 OF 32 USPAT2 on STN
     Text 2005:131808 USPAT2
AN
TI
        Block polymers, compositions and methods of use for foams, laundry
        detergents, shower rinses and coagulants
        Yeung, Dominic Wai-Kwing, Ontario, CANADA
        Bergeron, Vance, Antony, FRANCE
        Bodet, Jean-Francois, Mason, OH, UNITED STATES
Sivik, Mark R., Ft. Mitchell, KY, UNITED STATES
        Kluesener, Bernard W., Harrison, OH, UNITED STATES
        Scheper, William M., Lawrenceburg, IN, UNITED STATES
        Rhodia Inc., Cranbury, NJ, UNITED STATES (U.S. corporation)
PA
ΡI
       US 7335700
                             B2 20080226
ΑI
       US 2005-25967
                                  20050103 (11)
RLI
        Continuation of Ser. No. US 2000-698149, filed on 30 Oct 2000, Pat. No.
        US 6864314 Continuation-in-part of Ser. No. US 1999-318942, filed on 26
        May 1999, ABANDONED
       Utility
DТ
FS
       GRANTED
LN.CNT 4583
TNCL.
        INCLM: 525/091.000
        INCLS: 525/089.000; 525/329.200; 525/330.500; 524/762.000; 524/808.000
NCL
        NCLM: 525/091.000; 510/235.000
               524/762.000; 524/808.000; 525/089.000; 525/329.200; 525/330.500
        NCLS:
               C11D0001-00 [ICM, 7]
        IPCI
        IPCI-2 C08F0012-28 [I,A]; C08F0012-00 [I,C*]; C08K0005-16 [I,A];
               C08K0005-00 [I,C*]
               C08F0012-00 [I,C]; C08F0012-28 [I,A]; A61K0008-72 [I,C*];
        IPCR
               A61K0008-90 [I,A]; A61Q0005-02 [I,C*]; A61Q0005-02 [I,A];
               A61Q0019-10 [I,C*]; A61Q0019-10 [I,A]; C08F0220-00 [I,C*];
               COSF0220-34 [I,A]; COSF0293-00 [I,C*]; COSF0293-00 [I,A]; COSK0005-00 [I,C]; COSK0005-16 [I,A]; COSL0053-00 [I,A]; COSL0053-00 [I,A]; CIID0001-00 [I,C*]; CIID0001-00 [I,A];
               C11D0003-37 [I,C*]; C11D0003-37 [I,A]; D21H0021-10 [I,C*];
               D21H0021-10 [I,A]
        525/91; 525/89; 525/329.2; 525/330.5; 524/70; 524/762; 524/808
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 30 OF 32 USPAT2 on STN
Full Text
        2002:294312 USPAT2
        External compositions for skin comprising sphingoglycolipid
       Murata, Katsumi, Tokyo, JAPAN
Nozawa, Takashi, Tokyo, JAPAN
        Hara, Hisako, Tokyo, JAPAN
        Asai, Michiki, Tokyo, JAPAN
        Wakavama, Sachio, Tokvo, JAPAN
PA
       Kibun Food Chemifa Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)
US 6514744 B2 20030204
```

PI US 6514744 B2 20030204 AI US 2001-12510 20011212 (10) RLI Division of Ser. No. US 1998-84394, filed on 27 May 1998, now patented, Pat. No. US 6348201, issued on 19 Feb 2002

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PRAI
      JP 1997-141768
       JP 1997-141769
                              19970530
       JP 1997-141770
                              19970530
       JP 1997-141771
                              19970530
       JP 1998-9963
        JP 1998-61749
                              19980312
        Utility
FS
        GRANTED
IN. CNT 1111
        INCLM: 435/252.100
TNCI.
        INCLS: 435/254.100; 435/255.100
       NCLM: 435/252.100; 424/195.150
NCL
       NCLS: 435/254.100; 435/255.100
        [71
        ICM
               C12N001-20
        TCS
               C12N001-14
        IPCI
               A61K0035-84 [ICM, 7]; C12N0001-18 [ICS, 7]
        IPCI-2 C12N0001-20 [ICM, 7]; C12N0001-14 [ICS, 7]
        IPCR
              A61K0008-02 [I,C*]; A61K0008-02 [I,A]; A61K0008-30 [I,C*];
               A61K0008-68 [I,A]; A61K0008-96 [I,C*]; A61K0008-97 [I,A];
               A61K0008-99 [I,A]; A61K0036-06 [I,C*]; A61K0036-06 [I,A]; A61Q0001-02 [I,C*]; A61Q0001-02 [I,A]; A61Q0001-04 [I,A];
               A61Q0001-06 [I,A]; A61Q0001-08 [I,A]; A61Q0001-10 [I,A];
               A61Q0003-02 [I,C*]; A61Q0003-02 [I,A]; A61Q0005-00 [I,C*];
               A61Q0005-00 [I,A]; A61Q0005-02 [I,C*]; A61Q0005-02 [I,A];
                A61Q0005-10 [I,C*]; A61Q0005-10 [I,A]; A61Q0009-02 [I,C*];
               A61Q0009-02 [I,A]; A61Q0011-00 [I,C*]; A61Q0011-00 [I,A];
               A61Q0019-00 [I,C1]; A61Q0019-00 [I,A]; A61Q0019-01 [I,C1]; A61Q0019-00 [I,A]; A61Q0019-01 [I,C1]; A61Q0019-10 [I,C1]; A61Q0019-10 [I,A]; C12N0001-14 [I,C1]; C12N0001-14 [I,C1]; C12N0001-14 [I,C1]; C12N0001-14 [I,C1]; C12N0001-14 [I,C1]; C12N0001-20 [I,C1];
                C12N0001-20 [I,A]
EXE
        424/450; 435/254.1; 435/255.1; 435/252.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 31 OF 32 USPAT2 on STN
Full Text
AN
        2002:164425 USPAT2
TI
        Cosmetic, personal care, cleaning agent, and nutritional supplement
        compositions and methods of making and using same
        Lee, Sean, Karlsruhe, GERMANY, FEDERAL REPUBLIC OF
        Kessler, Susanna, Ergolding, GERMANY, FEDERAL REPUBLIC OF
        Forberich, Oliver, Oberursel, GERMANY, FEDERAL REPUBLIC OF
        Buchwar, Claire, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF
        Greenspan, David C., Gainesville, FL, UNITED STATES
        Schott AG, Mainz, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)
PΑ
ΡI
       US 7250174
                      B2 20070731
AΙ
       US 2001-818466
                                  20010327 (9)
       US 2000-197162P 20000414 (60)
PRAI
       US 2000-192216P
                             20000327 (60)
       Utility
DT
        GRANTED
FS
LN.CNT 4395
TNCL.
        INCLM: 424/401.000
        INCLS: 424/400.000: 424/404.000: 424/064.000: 424/069.000: 424/070.100
NCL
       NCLM: 424/401.000
       NCLS: 424/064.000; 424/069.000; 424/070.100; 424/400.000; 424/404.000;
                424/063.000
        TPCT
               A61K0007-021 [ICM, 7]; A61K0007-025 [ICS, 7]; A61K0007-00 [ICS, 7]
        IPCI-2 A61K0006-00 [I,A]; A61K0009-00 [I,A]; A61K0025-34 [I,A];
               A61K0008-00 [I,A]; A61K0008-18 [I,A]
        IPCR
               A61K0006-00 [I,C]; A61K0006-00 [I,A]; A61K0008-00 [I,C];
               A61K0008-00 [I,A]; A61K0008-18 [I,C]; A61K0008-18 [I,A];
               A61K0008-19 [I,C*]; A61K0008-22 [I,A]; A61K0008-25 [I,A];
               A61K0009-00 [I,C]; A61K0009-00 [I,A]; A61Q0001-02 [I,C*];
               A61Q0001-02 [I,A]; A61Q0001-06 [I,A]; A61Q0003-00 [I,C*];
               A61Q0003-00 [I,A]; A61Q0005-02 [I,C*]; A61Q0005-02 [I,A]; A61Q0009-02 [I,C*]; A61Q0009-02 [I,A]; A61Q0011-00 [I,C*];
                A61Q0011-00 [I,A]; A61Q0015-00 [I,C*]; A61Q0015-00 [I,A];
               A61Q0017-04 [I,C*]; A61Q0017-04 [I,A]; A61Q0019-00 [I,C*];
               A61Q0019-00 [I,A]; A61Q0019-10 [I,C*]; A61Q0019-10 [I,A]
        424/400; 424/401; 424/63; 424/64; 424/69; 424/59; 424/404
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

```
L10 ANSWER 32 OF 32 USPAT2 on STN
     Text
AN
       2002:12038 USPAT2
TI
       External composition for skin comprising sphingoglycolipid
       Murata, Katsumi, Tokyo, JAPAN
Nozawa, Takashi, Tokyo, JAPAN
       Hara, Hisako, Tokyo, JAPAN
       Asai, Michiki, Tokyo, JAPAN
       Wakayama, Sachio, Tokyo, JAPAN
       Kibun Food Chemifa Co., Ltd., Tokyo, JAPAN (non-U.S. corporation) US 6348201 B2 20020219
PA
PΙ
       US 1998-84394
                                  19980527 (9)
ΑI
       JP 1997-141768
PRAI
                              19970530
       JP 1997-141769
                              19970530
       JP 1997-141770
                             19970530
       JP 1997-141771
                             19970530
       JP 1998-963
                             19980121
       JP 1998-61749
                             19980312
DT
       Utility
       GRANTED
FS
LN.CNT 1239
INCL
       INCLM: 424/401.000
       INCLS: 536/017.900; 514/025.000; 435/822.000
NCL
       NCLM: 424/401.000; 424/400.000
       NCLS:
              435/822.000; 514/025.000; 536/017.900
       [7]
       TCM
               A61K007-00
       IPCI
               A61K0009-00 [ICM, 7]
       IPCI-2 A61K0007-00 [ICM, 7]
       IPCR
               A61K0008-02 [I,C*]; A61K0008-02 [I,A]; A61K0008-30 [I,C*];
               A61K0008-68 [I,A]; A61K0008-96 [I,C*]; A61K0008-97 [I,A];
               A61K0008-99 [I,A]; A61Q0001-02 [I,C*]; A61Q0001-02 [I,A];
               A61Q0001-04 [I,A]; A61Q0001-06 [I,A]; A61Q0001-08 [I,A];
               A61Q0001-10 [I,A]; A61Q0005-00 [I,C*]; A61Q0005-00 [I,A]; A61Q0005-02 [I,C*]; A61Q0005-02 [I,A]; A61Q0005-10 [I,C*];
               A61Q0005-10 [I,A]; A61Q0009-02 [I,C*]; A61Q0009-02 [I,A]; A61Q0011-00 [I,C*]; A61Q0011-00 [I,C*]; A61Q0011-00 [I,A]; A61Q0019-00 [I,C*];
               A61Q0019-00 [I,A]; A61Q0019-02 [I,C*]; A61Q0019-02 [I,A];
               A61Q0019-10 [I,C*]; A61Q0019-10 [I,A]; C12N0001-14 [I,C*];
               C12N0001-14 [I,A]
       424/401; 536/17.9; 514/25; 435/822
EXF
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
=> d 110 1-32 an ti in pa pi kwic 23 25 26
L10 ANSWER 1 OF 32 USPATFULL on STN
Full Text
AN
        2008:151098 USPATFULL
       BLOCK POLYMERS, COMPOSITIONS AND METHODS OF USE FOR FOAMS, LAUNDRY
TI
       DETERGENTS, SHOWER RINSES AND COAGULANTS
TN
       YEUNG, Dominic Wai-Kwing, Ontario, CANADA
       Bergeron, Vance, Antony, FRANCE
       Bodet, Jean-Francois, Mason, OH, UNITED STATES
       Sivik, Mark Robert, Ft. Mitchell, KY, UNITED STATES
       Kluesener, Bernard William, Harrison, OH, UNITED STATES
       Scheper, William Michael, Lawrenceburg, IN, UNITED STATES
Rhodia Inc., Cranbury, NJ, UNITED STATES (U.S. corporation)
PA
                            A1 20080605
PI
       US 20080131393
AB
                fabric cleaning compositions. The polymeric material is also
       effective in oil well treating foam, fire-fighting foam, hard surface
       cleaning foam, shaving cream, post-foaming shaving gel,
       dephiliatories and as a coagulant/retention aid for titanium dioxide in
       paper making.
SUMM
         . . aspect, the present invention provides methods and compositions
       for personal care, such as shampoos, soaps (hand washes and body
       washes), shaving cream, post foaming shaving gel, and
       dephiliatories, oil field foam, fire fighting foam, agrochemical foam,
       hard surface (e.g., bathroom tile) foam cleaner, shower rinse, fabric.
```

For the other uses of these block polymers, such as personal care (e.g.,

DETD

30

hand wash, body wash, shampoo, shaving cream, post-foaming shaving gel, dephiliatories), oil field foam, fire fighting foam, agrochemical foam, hard surface (e.g., bathroom tile) cleaner foam, shower rinse, and coaqulants.

DETD . . or an alkoxylated derivative (preferably ethoxylated or propoxylated) thereof. Z preferably will be derived from a reducing sugar in a reductive amination reaction; more preferably Z will be a glycityl. Suitable reducing sugars include glucose, fructose, maltose, lactose, galactose, mannose, and. .

DETD in the art. In general, they can be made by reacting an alkyl amine with a reducing sugar in a reductive amination reaction to form a corresponding N-alkyl polyhydroxyamine, and then reacting the N-alkyl polyhydroxyamine with a fatty aliphatic ester or. . .

. . provide cleaning performance benefits. Said enzymes include enzymes selected from cellulases, hemicellulases, peroxidases, proteases, gluco-amylases, amylases, lipases, cutinases, pectinases, xylanases, reductases, oxidases, phenoloxidases, lipoxygenases, ligninases, pullulanases, tannases, pentosanases, malanases, β-glucanases, arabinosidases or mixtures thereof. A preferred combination is a detergent composition.

DETD . . . of the present invention. They can be any conventional antioxidant used in detergent compositions, such as 2,6-di-tert-butyl-4methylphenol (BHT), carbamate, ascorbate, thiosulfate, monoethanolamine (MEA), diethanolamine, triethanolamine, etc. It is preferred that the antioxidant, when present, be present in the composition from about 0.001%.

. (e.g., sodium and potassium dichloroisocyanurates), peroxyacid DETD bleaches (e.g., diperoxydodecane-1,12-dioic acid), inorganic percompound bleaches (e.g., sodium perborate), antioxidants as optional stabilizers, reductive agents, activators for percompound bleaches (e.g., tetraacetylethylenediamine and sodium nonanoyloxybenzene sulfonate), soil suspending agents (e.g., sodium carboxymethyl cellulose), soil anti-redisposition.

DETD . . the reactor to form the polymerization mixture. The initiator can be a single organic or inorganic compound or a redox (reduction/oxidation) system of two or more compounds. For example, U.S. Pat. No. 5,863,526, incorporated herein by reference in its

entirety, discloses. What is claimed is: CLM

43. A method comprising shaving hair from skin comprising applying foam shaving cream to the skin, said shaving cream comprising a foaming agent and a polymer of claim 1.

CLM What is claimed is:

44. A method comprising shaving hair from skin comprising applying a shaving gel to the skin, said gel comprising a foaming agent and a polymer of claim 1.

L10 ANSWER 2 OF 32 USPATFULL on STN

Full Text AN

2007:314822 USPATFULL

NEW COSMETIC, PERSONAL CARE, CLEANING AGENT, AND NUTRITIONAL SUPPLEMENT TI COMPOSITIONS AND METHODS OF MAKING AND USING SAME

IN Lee, Sean, Karlsruhe, GERMANY, FEDERAL REPUBLIC OF

Kessler, Susanna, Ergolding, GERMANY, FEDERAL REPUBLIC OF Forberich, Oliver, Oberursel, GERMANY, FEDERAL REPUBLIC OF Buchwar, Claire, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF Greenspan, David C., Gainesville, FL, UNITED STATES

SCHOTT AG, MAINZ, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation) PA

ΡI US 20070275021 A1 20071129

DETD . also be evaporated to provide a solid material with anti-microbial properties. These compositions can be used in situations where elimination, reduction, or prevention of microbes, including but not limited to bacteria, viruses, and fungi would be advantageous, for example, in cosmetic.

. effect of bioactive glass. The anti-inflammatory effects of DETD bioactive glass make it particularly useful in skin care formulations by promoting reductions in irritation, itching, redness and rashes.

The present invention provides for novel formulations of shaving DETD cream and gel products by incorporating bioactive glass into a combination of any of the above-listed ingredients.

- DETD . . fit inside dentin tubules that are approximately 1-2 microns in diameter. The occlusion of these tubules leads to a significant reduction in the amount of sensitivity after, for example, periodontal surgery. A particularly effective combination includes a mixture of particles, wherein. . .
- DETD bicarbonate, sodium chloride, sodium citrate, sodium phosphate, oxymetazoline HCl, hydroxpropyl methyl cellulose, pheniramine maleate, liquifilm, phenylephrine HCl, sodium acetate, sodium thiosulfate and hydrochloric acid.
- DETD . . comprised a sol-gel-derived bioactive glass powder mixed with a commercially available facial cream. This product gave the appearance of wrinkle reduction and skin-tightening when applied to the face.
- DETD The **reduction** in microbial growth correlates with a pH increase in the medium.
- DETD . . . solution would significantly increase the hardness of the solution. It was therefore expected that calcification would increase resulting in a reduction of cleaning action, so that these glasses would not be suitable for use as washing and cleaning agents. Moreover, it. . . .
- L10 ANSWER 3 OF 32 USPATFULL on STN

AN 2006:130742 USPATFULL

- TI Linkage of agents using microparticles
- IN Green, Howard, Brookline, MA, UNITED STATES
 Compton, Bruce J., Lexington, MA, UNITED STATES
 Corey, George D., Newton, MA, UNITED STATES
 Djian, Philippe, Paris, FRANCE
- PA Pericor Science, Inc., Boston, MA, UNITED STATES (U.S. corporation)
 PI US 20060110379 A1 20060525
 DETD . . al., 1993, Pharmacol. Res. 10:945-953), the carbobenzoxy
- DEID

 al., 1993, Pharmacol. Res. 10:945-953), the carbobenzoxy
 (i.e., CB2) protective groups are removed using either acid hydrolysis
 or lithium/liquid ammonia reduction, thereby exposing reactive amine
 groups. Lithium/liquid ammonia reduction is recommended if microsphere
 are desired, given its less harsh effect of the external surface of the
 microparticle. In addition.
- DETD silk amino acids; sodium carboxymethyl chitin; sodium lactate; sodium manunconate methylsilanol; sodium PCA; - DETD . Butterate; Diméthicone Copolyol Shea Butterate; Dimethicone Copolyol Undecylenate; Dimethicone Hydroxyptropyl Trimonioum Chloride; Dimethicone/Mercaptopropyl Methicone Copolymer; Dimethicone Propyl PG-Betaine; Dimethicone/Sodium PG-Propyldimethicone Thiosulfate Copolymer; Dimethiconol Arginine; Dimethiconol Cysteine; Dimethiconol Lactate; Dimethiconol Arginine; Dimethiconol/Silsesquioxane Copolymer; Dimethaxysilyl Ethylenediaminopropyl Dimethicone; Dimethylaminopropylamio PCA Dimethicone; Dimethyl Aspartic Acid; .
- DETD Tethionate; Sodium Palmitoyl Chondroitin Sulfate; Sodium Palmitoyl Hydrolyzed Collagen; Sodium Palmitoyl Hydrolyzed Wheat Protein; Sodium Pantothenate; Sodium PCA; Sodium PG-Propyl Thiosulfate Dimethicone; Sodium Polyaspartate; Sodium Polyalutamate; Sodium Ricinoleoamphoacetate; Sodium SolyHydrolyzed Collagen; Sodium Stearoamphoacetate; Sodium Stearoamphohydroxypropyl-sulfonate; Sodium Stearoamphopropionate; Sodium St
- DETD sebacate; dicapryl adipate; dicetyl adipate; diethyl phthalate; diethylene glycolamine/epichlorohydrin/piperazine copolymer; diglycol/chdm/isophthalates/sip copolymer; dilinoleic acid/ethylenediamine copolymer; dimethicone/ercaptopropyl methicone copolymer; dimethicone/sodium PG-propyldimethicone thiosulfate copolymer; dimethyl phthalate; dioctyl adipate; dioctyl phthalate; dioctyl sebacate; dioctyl succinate; dmapa acrylates/acrylic acid/acrylonitrogens copolymer; dmhf; dodecanedioic acid/cetearyl alcohol/qlycol copolymer;.

L10 ANSWER 4 OF 32 USPATFULL on STN

2006:64424 USPATFULL

AN Packaging container for discharge of plurality of contents, packaging product including the packaging container and process for producing the packaging product

IN

Mekata, Satoshi, Osaka, JAPAN US 20060054634 Al 20060 PΤ A1 20060316

- AB dye, a hair setting agent, an antiphlogistic analgesic, a glow inhibitor, a coolant, a pack agent, a cleansing agent, a shaving foam, a humectant, an antiperspirant, a vitamin or a skin softener.
- . . . used. This demonstrates the effects well. As reactions DETD generated by contacting or mixing of the contents, neutralization reactions, hydration reactions, oxidation/reduction reactions, ion exchange reactions, dissolution, acidolysis, etc. may be mentioned. As effects obtained by the reactions, generation of heat, cooling, . .
- . numbers 10-20) copolymers, and acid components. These reagents DETD may be used for application of setting agents for hairs, hair dyes, reduction of inflammation painkiller, ant-heat flushes, coolants, etc., and they display effects to thicken discharged contents (ejected matter) to improve adhesion,.
- DETD As combinations of reaction components participating in oxidation/reduction reaction, for example, dyestuffs, such as paraphenvlene diamine, and oxidising agents, such as hydrogen peroxide and oxidizing enzymes; sodium sulfite and hydrogen peroxide; sodium thiosulfate and hydrogen peroxide, etc. may be mentioned. These are used for applications, such as hair dyes, moisturing creams, cleansing
- discharge hair dve, enzyme hair dve, hair dress agent or DETD setting agent for hair, hair growth agent or hair restorers, reduction of inflammation pain killer, anti-heat flushes, coolants, pack agents, cleansing agents, shaving foams, moisturizers, antipersipirants, vitamin preparations, emollients and etc.
- L10 ANSWER 5 OF 32 USPATFULL on STN

AN

2005:270526 USPATFULL

- TI Linkage of agents to body tissue using microparticles and transglutaminase
- TN Green, Howard, Brookline, MA, UNITED STATES Compton, Bruce J., Lexington, MA, UNITED STATES

PA

- Corry, George D., Newton, MA, UNITED STATES
 Djian, Philippe, Paris, FRANCE
 Pericor Science, Inc., Boston, MA, UNITED STATES (U.S. corporation) PΙ US 6958148 B1 20051025
- DETD . al., 1993, Pharmacol. Res. 10:945-953), the carbobenzoxy (i.e., CBZ) protective groups are removed using either acid hydrolysis or lithium/liquid ammonia reduction, thereby exposing reactive amine groups. Lithium/liquid ammonia reduction is recommended if microspheres are desired, given its less harsh effect of the external
- surface of the microparticle. In addition, as shaving. In these latter embodiments, the composition of the DETD invention comprising a moisturizing agent can be supplied in a shaving qel or creme. Examples of moisturizing agents include: proteoglycans and glycosaminoglycans including hyaluronic acid, crosslinked hyaluronic acid, derivatized hyaluronic acid, chondroitin.
- DETD . . . silk amino acids; sodium carboxymethyl chitin; sodium lactate; sodium mannuronate methylsilanol; sodium PCA; sodium PCA; sodium PCA methylsilanol; sodium PG-propyl thiosulfate dimethicone; sodium polyglutamate; soluble collagen; sorbitol; soy sterol; sucrose; sulfated castor oil; TEA-lactate; TEA-PCA; trehalose; tricontanyl PVP; trifluoromethyl C1-4 alkyl.
- DETD Butterate; Dimethicone Copolyol Shea Butterate; Dimethicone Copolyol Undecylenate; Dimethicone Hydroxyptropyl Trimonioum Chloride; Dimethicone/Mercaptopropyl Methicone Copolymer; Dimethicone Propyl PG-Betaine; Dimethicone/Sodium PG-Propvidimethicone Thiosulfate Copolymer; Dimethiconol Arginine; Dimethiconol Cysteine; Dimethiconol Lactate: Dimethiconol Panthenol: Dimethiconol/Silsesquioxane Copolymer: Dimethaxysilyl Ethylenediaminopropyl Dimethicone; Dimethylaminopropylamido PCA Dimethicone; Dimethyl Aspartic Acid;.
- . . . Isethionate; Sodium Palmitovl Chondroitin Sulfate; Sodium DETD

Palmitoyl Hydrolyzed Collagen; Sodium Palmitoyl Hydrolyzed Wheat Protein; Sodium Pantothenate; Sodium Palm GP-Propyl Thiosulfate Dimethicone; Sodium Polyaspartate; Sodium Polyglutamate; Sodium Ricinoleoamphoacetate; Sodium Soy Hydrolyzed Collagen; Sodium Stearoamphoacetate; Sodium Stearoamphohydroxypropyl-sulfonate; Sodium S

DETD . sebacate; dicapryl adipate; dicetyl adipate; diethyl phthalate; diethylene glycolamine/epichlorohydrin/piperazine copolymer; diglycol/chdm/isophthalates/sip copolymer; dilinoleic acid/ethylenediamine copolymer; dimethicone/mercaptopropyl methicone copolymer; dimethicone sodium PG-propyldimethicone thiosulfate copolymer; dimethyl phthalate; dioctyl adipate; dioctyl phthalate; dioctyl sebacate; dioctyl succinate; dmapa acrylates/acrylic acid/acrylonitrogens copolymer; dmhf; dodecanedioic acid/cetearyl alcohol/glycol copolymer; .

L10 ANSWER 6 OF 32 USPATFULL on STN

Full Text

AN 2005:131808 USPATFULL

- TI Block polymers, compositions and methods of use for foams, laundry detergents, shower rinses and coagulants
- IN Yeung, Dominic Wai-Kwing, Mississauga, CANADA
- Bergeron, Vance, Antony, FRANCE Bodet, Jean-Francois, Mason, OH, UNITED STATES

Sivik, Mark Robert, Ft. Mitchell, KY, UNITED STATES
Kluesener, Bernard William, Harrison, OH, UNITED STATES

Scheper, William Michael, Lawrenceburg, IN, UNITED STATES
PA RHODIA, INC., Cranbury, NJ, UNITED STATES, 08512 (non-U.S. corporation)
PI US 2005013272 Al 20050526

PI US 20050113272 Al 20050526 US 7335700 B2 20080226

- AB . . . fabric cleaning compositions. The polymeric material is also effective in oil well treating foam, fire-fighting foam, hard surface cleaning foam, shaving cream, post-foaming shaving gel, dephiliatories and as a coagulant/retention aid for titanium dioxide in paper making.
- SUMM . aspect, the present invention provides methods and compositions for personal care, such as shampoos, soaps (hand washes and body washes), **shaving cream**, post foaming **shaving gel**, and dephiliatories, oil field foam, fire fighting foam, agrochemical foam, hard surface (e.g., bathroom tile) foam cleaner, shower rinse, fabric.
- DETD For the other uses of these block polymers, such as personal care (e.g., hand wash, body wash, shampoo, shaving cream, post-foaming shaving gel, diphilatories), oil field foam, fire fighting foam, agrochemical foam, hard surface (e.g., bathroom tile) cleaner foam, shower rinse, and coagulants.
- DETD .or an alkoxylated derivative (preferably ethoxylated or propoxylated) thereof. Z preferably will be derived from a reducing sugar in a reductive amination reaction, more preferably Z will be a glycityl. Suitable reducing sugars include glucose, fructose, maltose, lartose grapherose and propose and
- DEID lactose, galactose, mannose, and.

 DEID in the art. In general, they can be made by reacting an alkyl amine with a reducing sugar in a reductive amination reaction to form a corresponding N-alkyl polyhydroxyamine, and then reacting the N-alkyl polyhydroxyamine with a fatty aliphatic ester or.
- DETD . provide cleaning performance benefits. Said enzymes include enzymes selected from cellulases, hemicellulases, peroxidases, proteases, gluco-amylases, amylases, lipases, curtinases, pectinases, xylanases, reductases, oxidases, phenoloxidases, lipoxygenases, ligninases, pullulanases, tannases, pentosanases, malanases, B-qlucanases, arabinoxidases or mixtures thereof. A preferred
- combination is a detergent composition.

 DETD . of the present invention. They can be any conventional antioxidant used in detergent compositions, such as 2,6-di-tert-butyl-4-methylphenol (BHT), carbamate, ascorbate, thiosulfate, monoethanolamine (MEA), diethanolamine, triethanolamine, etc. It is preferred that the antioxidant, when present, be present in the

composition from about.

DEID (e.g., sodium and potassium dichloroisocyanurates), peroxyacid bleaches (e.g., diperoxydodecane-1,12-dioic acid), inorganic percompound

bleaches (e.g., sodium perborate), antioxidants as optional stabilizers, reductive agents, activators for percompound bleaches (e.g.,

- tetraacetylethylenediamine and sodium nonanoyloxybenzene sulfonate), soil suspending agents (e.g., sodium carboxymethyl cellulose), soil anti-redisposition. . . .
- DETD the reactor to form the polymerization mixture. The initiator can be a single organic or inorganic compound or a redox (reduction/oxidation) system of two or more compounds. For example, U.S. Pat. No. 5,863,526, incorporated herein by reference in its entirety, discloses.

L10 ANSWER 7 OF 32 USPATFULL on STN

Full Text AN 200

- 2005:59196 USPATFULL
- TI Block polymers, compositions and methods of use for foams, laundry detergents, shower rinses and coagulants
- IN Yeung, Dominic Wai-Kwing, 3661 Golden Orchard Drive, Mississauga, Ontario, CANADA L4Y 3J2

Bergeron, Vance, 118 rue Saint Exupery, Antony, FRANCE 92160 Bodet, Jean-Francois, 5067 Plantation Ct., Mason, OH, United States

45040 Sivik, Mark Robert, 2434 Sheffield Ct., Ft. Mitchell, KY, United States 41014

Kluesener, Bernard William, 11619 New Biddinger Rd., Harrison, OH, United States 45030

Scheper, William Michael, 2393 Picnic Woods Dr., Lawrenceburg, IN, United States 47025

PI US 6864314 B1 20050308

- AB fabric cleaning compositions. The polymeric material is also effective in oil well treating foam, fire-fighting foam, hard surface cleaning foam, shaving cream, post-foaming shaving gel, dephiliatories and as a coagulant/retention aid for titanium dioxide in paper making.
- SUMM aspect, the present invention provides methods and compositions for personal care, such as shampoos, soaps (hand washes and body washes), shaving cream, post foaming shaving gel, and dephiliatories, oil field foam, fire fighting foam, agrochemical foam, hard surface (e.g., bathroom tile) foam cleaner, shower rinse, fabric.
- DETD For the other uses of these block polymers, such as personal care (e.g., hand wash, body wash, shampoo, shaving cream, post-foaming shaving gel, diphiliatories), oil field foam, fire fighting foam, agrochemical foam, hard surface (e.g., bathroom tile) cleaner foam, shower rinse, and coaquiants.
- DETD . . or an alkoxylated derivative (preferably ethoxylated or propoxylated) thereof. Z preferably will be derived from a reducing sugar in a reductive amination reaction; more preferably Z will be a glycityl. Suitable reducing sugars include glucose, fructose, maltose, lactose, walactose, mannose, and .
- DETD lactose, galactose mannose, and . . in the art. In general, they can be made by reacting an alkyl amine with a reducing sugar in a reductive amination reaction to form a corresponding N-alkyl polyhydroxyamine, and then reacting the N-alkyl polyhydroxyamine with a fatty aliphatic ester or.
- DEID . provide cleaning performance benefits. Said enzymes include enzymes selected from cellulases, hemicellulases, peroxidases, proteases, gluco-amylases, amylases, lipases, cutinases, pectinases, xylanases, reductases, oxidases, phenoloxidases, lipoxygenases, ligninases, pullulanases, tannases, pentosanases, malanases, β-glucanases, arabinosidases or mixtures thereof. A preferred
- combination is a detergent composition.

 DEID . of the present invention. They can be any conventional antioxidant used in detergent compositions, such as 2,6-di-tert-butyl-4-methylphenol (BHT), carbamate, ascorbate, thiosulfate, monoethanolamine(MBA), diethanolamine, triethanolamine, etc. It is preferred that the antioxidant, when present, be present in the composition from about 0.001%.
- DEID (e.g., sodium and potassium dichloroisocyanurates), peroxyacid bleaches (e.g., diperoxydodecane-1,12-dioic acid), inorganic percompound bleaches (e.g., sodium perborate), antioxidants as optional stabilizers, reductive agents, activators for percompound bleaches (e.g., tetraacetylethylenediamine and sodium nonanoyloxybenzene sulfonate), soil suspending agents (e.g., sodium carboxymethyl cellulose), soil anti-redisposition.
- DETD . . . the reactor to form the polymerization mixture. The initiator

can be a single organic or inorganic compound or a redox (reduction/oxidation) system of two or more compounds. For example, U.S. Pat. No. 5,863,526, incorporated herein by reference in its entirety, discloses. . .

CLM What is claimed is:
41. A method comprising staving hair from skin comprising applying foam
shaving cream to the skin, said shaving cream comprising a
foaming agent and a polymer of claim 1.

CLM What is claimed is:

42. A method comprising shaving hair from skin comprising applying a shaving gel to the skin, said gel comprising a foaming agent and a polymer of claim 1.

L10 ANSWER 8 OF 32 USPATFULL on STN

Full Text

AN 2004:214981 USPATFULL

TI Shave gel products

IN Manivannan, Gurusamy, Maryland Heights, MO, UNITED STATES Novikov, Alexander, Framingham, MA, UNITED STATES Thong, Stephen, Needham, MA, UNITED STATES Barnet, Alfred, Hincham, MA, UNITED STATES

Barnet, Alfred, Hingham, MA, UNITED STATES Xu, Yun, Andover, MA, UNITED STATES

McLaughlin, Ronald, Medford, MA, UNITED STATES PI US 20040166086 A1 20040826

[0008] In one aspect, the invention features a post-foaming shave gel product comprising an oxidant component and a reductant component. The oxidant component comprises a first shave gel base and an oxidizing agent and the reductant component comprises a second shave gel base and a reducing agent.

SUMM ... chamber comprising a first shave gel base and about 2% to about 10% of an oxidizing agent; and (c) a reductant component in the second chamber comprising a second shave gel base and about 2% to about 10% of a reducing. . selected and are present in such proportion to provide an exothermic reaction upon mixing of the oxidant component and

the reductant component during use of the shaving composition.

SUNM [0012] The oxidizing agent may include a peroxide. The reducing agent may be selected from the group consisting of thiosulfate and sulfite compounds, compounds with a thiourea backbone, and mixtures thereof. One

or both of the shave gel bases may.

DETD

. . two separate components, (a) an oxidant component containing a first shave gel base and the oxidizing agent and (b) a reductant component containing a second shave gel base and the reducing agent Any ingredients that could be easily oxidized by the oxidizing agent during the product shelf life are included in the reductant component. These two components are maintained separate in the packaging of the shaving gel composition, as will be discussed further below, and are mixed during or after dispensing. When the two phases are mixed, . . . gel. If the exothermic reaction generates an acid that might tend to irritate the user's skin, one component, preferably the reductant component generally includes a neutralizing agent to neutralize this acid.

DETD . . . the same consistency before, during and after heating. The blend of surfactants is generally present in both the oxidant and reductant components, so that both components can be provided as

stable emulsions that can be dispensed in gel form.

DETD . . . cosmetic properties. The oil phase of the emulsion may include

any desired emollient that is safe for use in a **shaving gel**, is compatible with the other ingredients of the composition, and provides the desired aesthetics and in-shave lubricity. Suitable emollients

include. .

DETD . safe for use on human skin in the amounts used in the formulation. The reducing agent may include, for example, thiosulfate and sulfite compounds, such as sodium sulfite, sodium thiosulfate, ammonium thiosulfate, potassium thiosulfate, and thiourea. Other suitable reducing agents include compounds with a thiourea backbone, such as 1,5 diethyl-2-thiobarbituric acid or its derivatives,

DETD . . included in stoichiometric proportions, based on the redox reaction that will occur. The redox reaction of hydrogen peroxide with sodium thiosulfate is as follows:

DETD . . . to 45 seconds after the two components are mixed (this is the temperature the gel reaches when the oxidant and **reductant** phase of

the gel are mixed in a beaker in stoichiometric amounts that provide a total weight of 10 grams. .

DETD . without deleterious effects on the skin or on the properties of the gel. The catalyst is generally included in the reductant component of the composition. Suitable catalysts for the oxidizing agents and reducing agents described above include sodium molybdate, potassium molybdate,. .

. . . seconds, preferably in about 5 to about 15 seconds. The DETD post-foaming agent is generally included in both the oxidant and reductant components in an amount of about 1% to about 6%, preferably about 2% to about 5%, by weight, and may. . DETD [0045] The oxidant component and the reductant component are

maintained separate from each other until the product is dispensed. This may be accomplished using any desired type. . .

[0046] As will be illustrated below, the oxidant and reductant DETD components may be formed by adding the oxidizing agent and reducing agent, respectively, to first and second shave gel bases.. . . DETD [0048] To form the reductant phase, actives such as sodium

thiosulfate and sodium molybdate are added to the shave gel base formed above, followed by the fragrance and dye, with mixing. . [0050] At 35-55° C., each of the oxidant and reductant DETD

components are blended with a post-foaming agent at the desired weight percentage range of 3%-4.5%. The shave gel is then. . . a bag-in-bag assembly. It is preferable to place the oxidant component in the inner side of the bag and the reductant component in the outer side of the bag. Even if there is a breach in the bag, having the oxidant. . . . manufactured according to the formulations shown in the DETD

following tables. The formulations in the tables are for the oxidant and reductant phases without post-foaming agent. As discussed above, these phases would be mixed with a desired amount and type of post-foaming. .

[0054] Reductant Phase: DETD

Steareth-21

Steareth-2

Example			
Ingredient	R-1 Wt. %		R-3 Wt. %
Water Sodium thiosulfate pentahydrate Myristyl alcohol Mineral oil, 65/75 Steareth-100 Ceteth-20 PEG-150 distearate C Blue 1% dye 0.20	7.50	6.00	5.00
Ingredient	Example R-4 Wt. %	R-5 Wt. %	R-6 Wt. %
Water Sodium thiosulfate pentahydrate Myristyl alcohol Mineral oil Steareth-100 Ceteth-20 Steareth-20 0.20 0.20 0.40	66.72 6.50 6.00 5.00 2.80 8.00	6.50 6.00 5.00 2.80 8.00	
Ingredient	Example R-7 Wt. %	R-8 Wt. %	R-9 Wt. %
Water Sodium thiosulfate pentahydrate Cetyl Alcohol Myristyl alcohol Mineral oil	62.70 6.50 5.00 0.75	60.10 6.50 6.50 5.00	61.70 6.50 10.0 0.75

DETD [0055] Any of the reductant phases described above can be used with

3.90

1.10.

3.90

- any of the oxidant phases.
- CLM What is claimed is:
- . . . the first chamber comprising a first shave gel base and about 2% to about 10% of an oxidizing agent; a reductant component in the second chamber comprising a second shave gel base and about 2% to about 10% of a reducing. . selected and being present in such proportion to provide an exothermic reaction upon mixing of the oxidant component and the reductant component during use of the shaving composition.
- CLM What is claimed is:
 - . . . The shave gel product of claim 1 or 6 wherein the reducing agent is selected from the group consisting of thiosulfate and sulfite compounds, compounds with a thiourea backbone, and mixtures thereof.
- L10 ANSWER 9 OF 32 USPATFULL on STN

Full Text

- AN 2004:214980 USPATFULL
- TI Shave gel compositions IN Manivannan, Gurusamy,
 - Manivannan, Gurusamy, North Chelmsford, MA, UNITED STATES Novikov, Alexander, Framingham, MA, UNITED STATES
 - Thong, Stephen, Needham, MA, UNITED STATES
 - Barnet, Alfred, Hingham, MA, UNITED STATES Xu, Yun, Andover, MA, UNITED STATES
- PI US 20040166085 A1 20040826
- SUMM [0007] In one aspect, the invention features a **shaving gel** including a post-foaming shave gel base, and heating reagents selected to provide an exothermic reaction during use of the **shaving gel**.
- SUMM . . reagents may include an oxidizing agent, e.g., a peroxide, and a reducing agent, e.g., selected from the group consisting of thiosulfate and sulfite compounds, compounds with a thiourea backbone, and mixtures thereof. The shave gel may be provided in the form of an oxidant component and a reductant component that are maintained separate until the shave gel is dispensed by a user.
- SUMM ... relatively shorter polyethylene oxide chain are provided in a ratio in the range of from about 1:1 to 1:3. The **shaving gel** may also include an emollient. Each emulsifier's hydrophilic (water-loving) part includes polyhydric alcohols and polyoxyethylene chains. Typical lioophilic parts may.
- SUMM . . . oxidant component comprising a first post-foaming shave gel base including an oxidizing agent, and, disposed in the other chamber, a reductant component comprising a second post-foaming shave gel base including a reducing agent.
- DETD [0014] Preferred post-foaming shaving gel compositions include water, a system of water-soluble polymers, a non-ionic emulsifier including a blend of relatively more hydrophilic and relatively.
- DETD

 . . an oil-in-water emulsion that is divided into two phases, (a)
 an oxidant phase containing the oxidizing agent and (b) a reductant
 phase containing the reducing agent. Any ingredients that could be
 easily oxidized by the oxidizing agent during the product shelf life are
 included in the reductant phase. These two phases are maintained
 separate in the packaging of the shaving gel composition, as will be
 discussed further below, and are mixed during or after dispensing. When
 the two phases are mixed, . . that heats the gel. If the exothermic
 reaction generates an acid that might tend to irritate the user's skin,
 the reductant composition generally includes a neutralizing agent to
 neutralize this acid.
- DETD . . the same consistency before, during and after heating. The blend of surfactants is generally present in both the oxidant and reductant components, so that both components can be provided as stable emulsions that can be dispensed in qel form.
- DETD ... cosmetic properties. The oil phase of the emulsion may include any desired emollient that is safe for use in a **shaving gel**, is compatible with the other ingredients of the composition, and provides the desired aesthetics and in-shave lubricity. Suitable emollients include.
- DETD . safe for use on human skin in the amounts used in the formulation. The reducing agent may include, for example, thiosulfate and sulfite compounds, such as sodium sulfite, sodium thiosulfate, ammonium thiostilfate, potassium thiosulfate, and thiourea. Other suitable reducing agents include compounds with a thiourea backbone, such as 1,5 diethyl-2-thiobarbituric acid or its derivatives.

- DETD ... included in stoichiometric proportions, based on the redox reaction that will occur. The redox reaction of hydrogen peroxide with sodium thiosulfate is as follows:
- DETD . to 45 seconds after the two components are mixed (this is the temperature the gel reaches when the oxidant and **reductant** phase of the gel are mixed in a beaker in stoichiometric amounts that provide a total weight of 10 grams.
- DETD without deleterious effects on the skin or on the properties of the gel. The catalyst is generally included in the **reductant** component of the composition. Suitable catalysts for the oxidizing agents and reducing agents described above include sodium molybdate, potassium molybdate,
- DEID . seconds, preferably in about 5 to about 15 seconds. The post-foaming agent is generally included in both the oxidant and reductant components, and may be added to concentrates formed by pre-mixing the other ingredients of each component.
- DETD [0042] The oxidant and reductant phases are maintained separate from each other until the product is dispensed. This may be accomplished using any desired type.
- DETD [0044] To form the reductant phase, actives such as sodium thiosulfate and sodium molybate are added to the concentrate formed above, followed by the fragrance and dye, with mixing at 55°.
- DETD [0046] At 35-45° C., each of the oxidant and reductant phases are blended with a post-foaming agent at the desired weight percentage range of 3-4.5%. The shave gel is then. . . a bag-in-bag assembly. It is preferable to place the oxidant phase in the inner side of the bag and the reductant phase in the outer side of the bag. Even if there is a breach in the bag, having the oxidant.
- DETD [0049] Reductant Phase:

SSEC-90-1599	SSEC-85-1599	SSEC-89-1599	
Ingredient	Wt. %	Wt. %	Wt. %
Water Sodium thiosulfate pentahydrate Myristyl alcohol Mineral oil, 65/75 Steareth-100 Ceteth-20 PEG-150 distearate & C Blue 0.20 0.20	6.50 6.00 7.50 2.80 8.00	6.00 5.00 2.80	67.02 6.50 6.00 5.00 2.80 8.00
SSEC-101-1599	SSEC-91-1599	SSEC-98-1599	
Ingredient	Wt. %	Wt. %	Wt. %
Sodium thiosulfate pentahydrate Myristyl alcohol Mineral oil	6.50 6.00 5.00	6.50 6.00 5.00	59.38 6.50 7.00 6.00 2.80 e 1% dye
SSEC-150-1599	SSEC-103-1599	SSEC-149-1599	
Ingredient	Wt. %	Wt. %	Wt. %
Water Sodium thiosulfate pentahydrate Myristyl alcohol Myristyl alcohol Steareth-100 Steareth-20 PEG-150 distearate DETD [0050] Amy of the reductant	6.50 7.00 6.00 4.60 5.70 0.30	6.50 6.50 5.00 4.60 5.70	57.93 6.50 6.00 7.00 2.80 8.00
DEID [0000] Any of the reductant		above can be used w	1011

any of the oxidant phases.

DETD . . . comparable to the type of foam that is generally observed when

using soap-based post-foaming shaving gels. When the oxidant and reductant phases were mixed in stoichiometric proportions to provide an amount of gel suitable for use in shaving (approximately 8 grams),.

- CLM What is claimed is:
 - . agent and a reducing agent, and the shaving composition is provided in the form of an oxidant component and a reductant component that are maintained separate until the shaving composition is dispensed by a user.
- CLM What is claimed is:

5. The shaving composition of claim 4 wherein the reducing agent is selected from the group consisting of thiosulfate and sulfite compounds, compounds with a thiourea backbone, and mixtures thereof.

- CLM What is claimed is:
 - oxidant component comprising a first post-foaming shave gel base including an oxidizing agent, and disposed in the other chamber, a reductant component comprising a second post-foaming shave gel base including a reducing agent; at least one of the post-foaming shave gel.
- CLM What is claimed is:

16. The post-foaming shaving gel product of claim 15 wherein the non-ionic emulsifier further comprises a fatty alcohol ethoxylate with relatively shorter polyethylene oxide chain.

CLM What is claimed is:

17. The post-foaming shaving gel product of claim 16 wherein the fatty alcohol ethoxylates with relatively long and relatively shorter polyethylene oxide chains are provided.

CLM What is claimed is:

18. The post-foaming shaving gel product of claim 14 wherein the non-ionic emulsifier comprises a blend of a relatively more hydrophobic surfactant and a relatively.

CLM What is claimed is:

 The post-foaming shaving gel product of claim 12 wherein the first and second post-foaming shave gel bases are substantially free of soaps and ionic.

L10 ANSWER 10 OF 32 USPATFULL on STN

Full Text

- AN 2002:294312 USPATFULL
- TI External compositions for skin comprising sphingoglycolipid
- IN Murata, Katsumi, Tokyo, JAPAN Nozawa, Takashi, Tokyo, JAPAN
 - Hara, Hisako, Tokyo, JAPAN Asai, Michiki, Tokyo, JAPAN
- Wakayama, Sachio, Tokyo, JAPAN PA KIBUN FOOD CHEMIFA CO., LTD., Minato-ku, Tokyo, JAPAN, 105-0004
- (non-U.S. corporation)
 PI US 20020164351 A1 2002110
- PI US 20020164351 A1 20021107 US 6514744 B2 20030204
- SUMM shadow, cream or milky lotion, toilet lotion, perfume, face powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance, powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening cream, foundation, powdery fragrance, cheek rouge, mascara.
- SUMM . . . shadow, cream or milky lotion, tollet lotion, perfume, face powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance, powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening
- cream, foundation, powdery fragrance, cheek rouge, mascara,.

 SUMM . the section for polyol), inorganic salts (e.g. sodium chloride, sodium hydrogen carbonate, sodium carbonate, borax, sodium sulfate, sodium sulfide, sodium thiosulfate, sodium sequicarbonate, magnesium oxide, calcium carbonate, magnesium carbonate, potassium chloride, potassium sulfide), cultured lactic acid bacteria, sterols (e.g. cholesterol, provitamin.

medium

Alkalization on	-	-	-	-	-
O-F medium Reduction of	-	_	-	-	-
nitrate to nitrite Simmons' citric	-	-	-	_	-
acid agar Christensen's DETD	d	+	+		
Lysine decarboxylase	-	-	-	-	-
Ornithine	-	-	-	-	-
decarboxylase Selenic salt	-	-	-	-	-
reduction Casein hydrolysis	-	-	-	-	-
DNase (HC1 method)	+	+	+	+	+
Thomley arginine	-	-	-		-
Tyrosine hydrolysis	+	+	+	+	+
Brown dye production	d	+	+	+	+
on tyrosine agar medium					
Nitrite reduction	-	-	-	-	-
Growth on PHBA	+	+	+	+	+
Endogenous PHBA	+	+	+	+	+

L10 ANSWER 11 OF 32 USPATFULL on STN Full Text.

AN 2002:164425 USPATFULL

- TI New cosmetic, personal care, cleaning agent, and nutritional supplement compositions and methods of making and using same
- IN Lee, Sean, Karlsruhe, GERMANY, FEDERAL REPUBLIC OF Kessler, Susanna, Ergolding, GERMANY, FEDERAL REPUBLIC OF Forberich, Oliver, Oberursel, GERMANY, FEDERAL REPUBLIC OF Buchwar, Claire, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF Greenspan, David C., Grainsville, FI, UNITED STATES
- PI US 20020086039 A1 20020704 US 7250174 B2 20070731
- SUMM . also be evaporated to provide a solid material with anti-microbial properties. These compositions can be used in situations where elimination, reduction, or prevention of microbes, including but not limited to bacteria, viruses, and fungi would be advantageous, for example, in cosmetic.
- SUMM effect of bioactive glass. The anti-inflammatory effects of bioactive glass make it particularly useful in skin care formulations by promoting reductions in irritation, itching, redness and rashes.
- DETD [0293] The present invention provides for novel formulations of shaving cream and gel products by incorporating bioactive glass into
- a combination of any of the above-listed ingredients.

 This inside dentin tubules that are approximately 1-2 microns in diameter. The occlusion of these tubules leads to a significant reduction in the amount of sensitivity after, for example, periodontal surgery. A particularly effective combination includes a mixture of
- DETD particles, wherein. bicarbonate, sodium chloride, sodium citrate, sodium phosphate, oxymetazoline HCI, hydroxpropyl methyl cellulose, pheniramine maleate, liquifilm, phenylephrine HCI, sodium acetate, sodium thiosulfate and hydrochloric acid.
- DETD . . . comprised a sol-gel-derived bioactive glass powder mixed with a commercially available facial cream. This product gave the appearance of

DETD	[0401] The reduin the medium solution. It was resulting in a	ion and skin-tighte action in microbial Examples 18 and 19 ion would significe as therefore expect reduction of clear pitable for use as	growth correl below demonst intly increase ded that calcif	ates wit rate the the hard ication that th	th a pH in e effect of lness of t would ind nese glass	of the crease ses
	ANSWER 12 OF 32 USPATFULL ON STN 1 TaxL 2002:12038 USPATFULL EXTERNAL COMPOSITION FOR SKIN COMPRISING SPHINGOGLYCOLIPID MURATA, KATSUMI, TOKYO, JAPAN HARA, HISAKO, TOKYO, JAPAN ASAI, MICHIKI, TOKYO, JAPAN ASAI, MICHIKI, TOKYO, JAPAN					
PI	US 20020006414					
SUMM	US 6348201 B2 20020219 shadow, cramm or milky lotion, toilet lotion, perfume, face powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance, powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening cream, foundation, powdery fragrance, cheek rouge, mascara,					
SUMM	powder, facial powder, pack, s oil, suntan lot	 oil, hair-care cosshaving cream, shaving cream, shaving, sun-screening 	otion, toilet metics, hair d ring lotion, su g lotion, sunta	lotion, ye, jell ntan oil n cream,	perfume, y fragram , anti-su sun-scre	nce, intan
SUMM	cream, foundation, powdery fragrance, cheek rouge, mascara,					
DETD Oxidat	ion on O-F	d	_		_	_
medium Alkali	zation on	_	_	_	_	_
O-F me	-	_	_	_	_	_
to nit	-				_	
acid a	-	_	_	_	_	_
	ensen's	d	+	+		
Lysine	decarboxylase	-	-	-	-	-
Ornith	ine _	-	-	-	-	-
	oxylase c salt	-	-	-	-	-
reduct Casein	ion hydrolysis	-	-	-	-	-
DNase	(HCl method)	+	+	+	+	+
Thomle	y arginine	-	-	-		-
Tyrosi	ne hydrolysis	+	+	+	+	+
Brown	dye production	d	+	+	+	+
medium	osine agar le reduction		_			_
MICTIC	e reduction	_	_	_	_	_

Growth on PHBA Endogenous PHBA

What is claimed is:

. shadow, cream or milky lotion, toilet lotion, perfume, face powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance, powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening cream, foundation, powdery fragrance, cheek rouge, mascara,. .

L10 ANSWER 13 OF 32 USPATFULL on STN

2001:39978 USPATFULL AN

ΤI Surgery plume filter device and method of filtering

IN Skalla, Randy Marc, Leesburg, GA, United States Ahrens, Carl Austin, Cincinnati, OH, United States Garner, Jr., Robert Keith, Miamisburg, OH, United States

Wilkinson, Bradley Carl, Cincinnati, OH, United States EnviroSurgical, Inc., Cincinnati, OH, United States (U.S. corporation) PA

ΡÏ US 6203762 B1 20010320

DETD . . a number of compounds. Representative materials include but are not limited to sodium hypochlorite, sodium perborate, sodium permanganate, and sodium thiosulfate. The oxidizing agent concentration in the solution is typically in the range of about 0.5 to about 30%, by weight.

. . . following: 20% potassium permanganate; 50% sodium hydroxide; 20% sodium dichloro-s-triazinetrione dihydrate; 45% potassium hydroxide; DETD 10% sodium perborate; and 20% sodium thiosulfate. The alkaline materials listed above coated onto a porous member retained cyanide, but

did not convert the cyanide to any. DETD . . outer layer 96 of filter cartridge 86. This foam had a much finer bubble structure, with the consistency of a shaving cream. No foam or visible moisture escaped from the filter assembly during the runs.

space. The foam provides a maximized surface area exposure of DETD the solution to the airstream for efficient and generally rapid reduction of the undesirable surgery plume agents within the airstream. Furthermore, the amount of solution 142 is maintained so that good. . .

L10 ANSWER 14 OF 32 USPATFULL on STN

IN

AN 1999:85240 USPATFULL TI

Protocol for simulated natural biofilm formation Bakich, Shannon L., Racine, WI, United States

PA

Sigp, Mark M., Mount Pleasant, WI, United States S.C. Johnson & Son, Inc., Racine, WI, United States (U.S. corporation) US 592889 19990727 ΡI

DETD

. . . men's shaving residue is added to the reactor about every 24 hours with the nutrient medium. The residue contains EDGE® shaving cream, water, hair, and skin cells.

The treated slides are removed and placed into wells of a slotted tray. DETD The slides are submerged in 5% sodium thiosulfate solution for two minutes, and then transferred to a second tray with deionized water. The CFU/cm.sup.2 are determined, and compared.

DETD Top and bottom slides treated with DC-X have similar reduction in the amount of biofilm, while the top slide treated with Plumr has less reduction than the bottom slide treated with Plumr.

DETD . data are statistically significant (95% confidence level), and microbiologically significant. Specifically, the differences observed are greater than a 2 log reduction in the amount of biofilm, which is significant in terms of microbiological observations in the biospheric environment.

L10 ANSWER 15 OF 32 USPATFULL on STN

Full Text

AN 1999:65049 USPATFULL ΤI

Surgery plume filter device and method of filtering TN Skalla, Randy Marc, Leesburg, GA, United States Ahrens, Carl Austin, Cincinnati, OH, United States

- Garner, Jr., Robert Keith, Miamisburg, OH, United States Wilkinson, Bradley Carl, Cincinnati, OH, United States
- EnviroSurgical, Inc., Springfield, OH, United States (U.S. corporation) PA
- PΙ US 5910291 19990608
- DETD . . . a number of compounds. Representative materials include but are not limited to sodium hypochlorite, sodium perborate, sodium permanganate, and sodium thiosulfate. The oxidizing agent concentration in the solution is typically in the range of about 0.5 to
- about 30%, by weight. DETD following: 20% potassium permanganate: 50% sodium hydroxide: 20% sodium dichloro-s-triazinetrione dihydrate; 45% potassium hydroxide;
- 10% sodium perborate; and 20% sodium thiosulfate. The alkaline materials listed above coated onto a porous member retained cyanide, but did not convert the cyanide to any. .
- outer layer 96 of filter cartridge 86. This foam had a much DETD finer bubble structure, with the consistency of a shaving cream. No foam or visible moisture escaped from the filter assembly during the
- DETD space. The foam provides a maximized surface area exposure of the solution to the airstream for efficient and generally rapid reduction of the undesirable surgery plume agents within the airstream. Furthermore, the amount of solution 142 is maintained so that good. . .
- L10 ANSWER 16 OF 32 USPATFULL on STN

- 1999:50845 USPATFULL AN
- ΤI Formulations of magnesium compounds for local application and methods of treatment using the same
- IN Marx, Alvin J., 511 Mirepoix, San Antonio, TX, United States 78232-1951 PΙ US 5898037 19990427
- SUMM "Dose-Related Effect of Inhaled Magnesium Sulfate on Histamine Bronchial Challenge in Asthmatics, "Drugs Exptl. Clin. Res., XIV(9) 609-612 (1988), and "Reduction of histamine-induced bronchoconstriction by magnesium in asthmatic subjects," Allergy, 42, 186-188 (1987).) The authors recommend that the aerosol solution be.
- DETD . . . weight.) Administration is preferably twice daily. The composition preferably includes other conventional active ingredients such as zinc sulfide or sodium thiosulfate to assist in resolving comedones (blackheads) and benzoyl peroxide as an antibacterial.
- Corticosteroids and isotrentinoin may also be added depending. . DETD
- After-Shave Lotion or **Shaving Cream** or gel.

 The foregoing composition for treating acne can be modified to formulate DETD a medicated shave lotion or shaving cream. Reformulation for an after-shave lotion generally includes the addition of a not insignificant amount of alcohol to the base carrier.
- DETD When reformulated for use as a shaving cream, such a composition would also include surfactants and foaming agents typically found in shaving preparations, or the magnesium compound may. . .
- L10 ANSWER 17 OF 32 USPATFULL on STN

- Text 97:68148 USPATFULL AN
- TI Personal product compositions comprising heteroatom containing alkyl aldonamide compounds
- IN Vermeer, Robert, Nutley, NJ, United States
- Lever Brothers Company, Division of Conopco, Inc., New York, NY, United PA States (U.S. corporation)
- US 5653970 19970805
- DETD . . an alkoxylated derivative thereof (preferably an ethoxylated or propoxylated derivative). Z may be derived from a reducing sugar in a reductive amination reaction and is preferably a glycityl. Examples of suitable reducing sugars include glucose, fructose, sucrose, maltose, lactose, galactose, mannose,. . . the art. In general, they are prepared by the reaction of an alkyl amine with a reducing sugar followed by reductive amination to form the corresponding N-alkyl polyhydroxyamine, which is then reacted with a fatty aliphatic ester or triglyceride in a.
- DETD examples of hydroxy acids useful in the present invention include the β -Hydroxy acids (3-hydroxy acids) which are prepared by catalytic reduction of β -keto esters followed by hydrolysis or by

the Reformatsky Reaction. Specific examples of $\beta\textsc{-hydroxy}$ acids include, but are not. . .

DEID potassium chloride, calcium chloride, magnesium chloride, potassium bromide, ammonium chloride, sodium sulfate, potassium sulfate, magnesium sulfate, sodium isethionate and sodium thiosulfate. The ionizable salts are particularly useful for obtaining or modifying a desired viscosity. The amount of ionizable salt used depends.

DETD . . . unique characteristic properties that distinguish

unique characteristic properties that distinguish surface-active materials (surfactants) from other non-surface active materials. These include critical micelle concentration, surface tension reduction, efficiency in surface tension reduction, effectiveness in surface tension reduction, effectiveness of adsorption, area per molecule and micellar shape or structure. The following examples will show that the heteroatom containing.

DETD A necessary and sufficient condition for CMC formation and surface tension reduction is the presence of both hydrophilic and hydrophobic functional groups. The hydrophilic portion provides strong interaction between the surfactant at. . interaction with the adjacent air phase. If any of these functions are not performed, then CMC formation and surface tension reduction will not occur. For significant surface activity, a properly balanced hydrophilic and hydrophobic character is essential. From the above table . . .

DETD Surface Tension Reduction

DETD table it can be seen that C.sub.8 /C.sub.10 oxypropyl
D-gluconamide absorbs strongly at the water/air interface resulting in a
significant reduction in water surface tension. This finding suggests
that the heteroatom containing alkyl aldonamides of the invention to be
surface-active and.

DETD Effectiveness of a surfactant in reducing surface tension is defined as the maximum reduction in surface tension that can be obtained regardless of the bulk phase surfactant concentration.

DETD Efficiency in Surface Tension Reduction

DETD Since surface tension reduction depends on the replacement of water molecules at the interface by surfactant molecules, the efficiency of a surfactant in reducing.

DETD As mentioned before, surface tension reduction depends on the

As mentioned before, surface tension reduction depends on the replacement of water molecules at the interface by surfactant molecules, therefore the effectiveness of a surfactant in.

DETD
Prototype Shaving Cream Compositions Comprising Heteroatom Containing Alkyl Aldonamide Compounds

Example
Ingredients 153 154 155 156 157 -(By Weight) % % % % %...

DETD A Foaming Conditioning Aerosol Shaving Cream Composition

DETD A Foaming Brushless Shaving Cream Composition

DETD A Foaming Shaving Gel Composition

DETD A Foaming Conditioning Aerosol Shaving Cream Composition

CLM What is claimed is:

. chloride, potassium chloride, calcium chloride, magnesium chloride, potassium bromide, ammonium chloride, sodium sulfate, potassium sulfate, magnesium sulfate, sodium isethionate, sodium thiosulfate and mixtures thereof; (d) about 1% to 40% skin conditioning agent; and (e) water.

L10 ANSWER 18 OF 32 USPATFULL on STN Full Text

AN 84:58202 USPATFULL

TI Preparations containing methylsulfonylmethane and methods of use and purification

IN Herschler, Robert J., 3080 NW. 8th St., Camas, WA, United States 98607 PI US 4477469 19841016

SUMM . . . skin treating composition containing carbamide in combination with one or more salts selected from the group including sodium

chloride, sodium thiosulfate and sodium dyhydrogen phosphate.

SUMM . . . in the tissue, and possibly by attacking existing cross-links.

Thus, the benefits observed when MSM is used may result from reductions in dehydration of body substances such as hyaluronic acid

and elastin, or from beneficial effects of MSM on fibrinogen.

BETD Because cross-linking of collagen can so effectively be reduced by the application of MSM, and that the **reduction** can be increased by the addition of carbamide, such compositions can be administered to animal

- tissue to counter the cross-linking.
- DETD ... feet were thus immersed for 30 minutes, 3 times daily, for a period of 2 weeks. The result was a **reduction** in discomfort and an increased skin softness and pliancy.
- DETD . leave the hair easily manageable and to soften the scalp. Those subjects having a dandruff problem found there was a **reduction** in itching, scaling and scalp inflammation after only four to five washings.
- DETD . . be more effective in hair management than a comparable commercial product. Several subjects, having persistent itching scalp problem, observed a **reduction** in the itching. In two subjects dandruff was reduced.
- DEID . . 8 as a pre-shave preparation with good results. If applied before retiring, or even minutes before shaving (using a commercial shaving cream), subjects obtained a more comfortable, smoother, and cleaner shave, using a blade razor, than if the commercial shaving cream was used alone. It also appeared that drag of the razor was reduced.
- DETD When the gel was used, leg hair was easily shaved without a commercial shaving cream overcoat. In all instances, use of the formulation left the skin feeling softer and smoother.
- DETD Reductions in nail brittleness were also observed when commercial nail polish removers, reformulated with MSM, were used repeatedly. Commercial nail polish. . .
- L10 ANSWER 19 OF 32 USPATFULL on STN

Full Text

PΙ

- AN 82:62978 USPATFULL
- TI Use of calcium metasilicate (wollastonite) as a formaldehyde suppressant for urea formaldehyde resins
- IN Wawzonek, Stanley, 2014 Ridgeway Dr., Iowa City, IA, United States 52240
 - US 4366264 19821228
- SUMM . line. The resin coated bubbles are forced out of the gun under pressure which results in a white foam resembling shaving cream. The resin, after mixing with the catalyst at the surface of the bubbles, begins to polymerize (cure) and within less.
- SUMM

 . finely divided suspension to urea formaldehyde resin, gives a
 form which the release of formaldehyde is markedly reduced. The
 reduction is also shown under high humidity conditions. In some
 instances, formaldehyde outgassing has been virtually eliminated from
- the standpoint of.

 SUMM . of the gun, as heretofore described. It has been found that
 when this additive and technique are employed, a marked **reduction** in
 formaldehyde out-gassing occurs.
- DEID . iodine (standardized with arsenic trioxide) to a dark blue color. The excess iodine was destroyed using a 0.05 N sodium thiosulfate and 0.01 iodine was added until a faint blue end-point was reached. The excess bisu
- L10 ANSWER 20 OF 32 USPATFULL on STN

AN 81:57504 USPATFULL

- TI Methylsulfonylmethane and methods of use
- IN Herschler, Robert J., 3080 NW. 8th St., Camas, WA, United States 98607
- PI US 4296130 19811020 SUMM . . skin treating composition containing carbamide in combination with one or more salts selected from the group including sodium
- chloride, sodium thiosulfate and sodium dyhydrogen phosphate.

 DETD . . . in the tissue, and possibly by attacking existing cross-links.
- Thus, the benefits observed when MSM is used may result from reductions in dehydration of body substances such as hyaluronic acid and elastin, or from beneficial effects of MSM on fibrinogen.
- DETD Because cross-linking of collagen can so effectively be reduced by the application of MSM, and that the reduction can be increased by the addition of carbamide, such compositions can be administered to animal tissue to counter the cross-linking.
- DETD . . . feet were thus immersed for 30 minutes, 3 times daily, for a period of 2 weeks. The result was a reduction in discomfort and an increased skin softness and pliancy.
- DETD . . . leave the hair easily manageable and to soften the scalp. Those subjects having a dandruff problem found there was a **reduction** in

- itching, scaling and scalp inflammation after only four to five washings.
- DETD . . . be more effective in hair management than a comparable commercial product. Several subjects, having persistent itching scalp problem, observed a reduction in the itching. In two subjects dandruff was reduced.
- DEID . . 8 as a pre-shave preparation with good results. If applied before retiring, or even minutes before shaving (using a commercial shaving cream), subjects obtained a more comfortable, smoother, and cleaner shave, using a blade razor, than if the commercial shaving cream was used alone. It also appeared that drag of the razor was reduced.
- DETD When the gel was used, leg hair was easily shaved without a commercial shaving cream overcoat. In all instances, use of the formulation left the skin feeling softer and smoother.
- DETD Reductions in nail brittleness were also observed when commercial nail polish removers, reformulated with MSM, were used repeatedly. Commercial nail polish.

L10 ANSWER 21 OF 32 USPATFULL on STN

Full Ter

- AN 77:43415 USPATFULL
- TI Thermogenic system
- IN Frump, John Adams, Terre Haute, IN, United States
- Hunsucker, Jerry Hoyt, Terre Haute, IN, United States
- PA IMC Chemical Group, Inc., Terre Haute, IN, United States (U.S. corporation)
- PI US 4042520 19770816
- AB as dispensed from suitable packages. The system includes the redox reactions of hydrogen peroxide as the oxidant and as the reductant compounds of the general oxazolidine formula ##STR## wherein R and R may be the same or different and are selected.
- SUMM Another redox heating system is found in Antonelli et al., U.S. Pat. No. 3,632,516, which employs as a reductant, potassium thiosulfate and potassium sulfite with a sodium tungstate catalyst. While oxidation of thiosulfate ion provides a greater heat yield than does the oxidation of thiosulfate or problem with the system is the fact that for every mole of thiosulfate oxidized, two moles of sulfate ion are generated requiring again the presence of excess base to prevent the pH from dropping so as to inhibit the formation of a soap. The thiosulfate and sulfite salts tend to cause gelling of soap compositions and are also highly corrosive to metal dispension containers and.
- SUMM Another redox heating system is found in Margolis, U.S. Pat. No. 3,804,771, which employs as a reductant, xanthates, dithiocarbamates, and combinations of formaldehyde and molecular entities incorporating a ##STRZ## grouping using hydrogen peroxide as the oxidant. The.
- DETD . . and 2-amino-2-ethyl-1,3-propanediol. Other amino alcohols from which oxazolidine thermogens of this invention can be prepared, can themselves be prepared by reduction of nitroalcohols formed by condensation reactions of known nitroalkanes with formaldehyde. Some of these amino alcohols and the nitroalkanes from. . of this invention can be prepared by the condensation reaction of the appropriate nitroalkane and formaldehyde to yield the nitroalcohol, reduction of the nitroalcohol to the aminoalcohol followed by another condensation reaction with formaldehyde to give the oxazolidine thermogen. These condensation and reduction reactions are well known in the art.
- DETD ... One method of accomplishing this is to provide a two compartment container. One compartment to contain the oxazolidine thermogen, the reductant, the other to contain the hydrogen peroxide oxidant. The two compartment container allows for the components to mix immediately before.
- DETD . to illustrate the invention and not to limit it. In the specific examples given hereinbelow, the weight ratio of oxazolidine reductant mixture to oxidant is about 3:1. It is to be understood that this ratio may be widely varied to produce.
- DETD A hot **shaving cream** employing the thermogenic system of this invention is prepared in a two-compartment package according to the following formula:
- CLM What is claimed is:
 23. A method of heating a material selected from shaving cream,
 cleansing cream, hand cleanser and windshield de-icer comprising the
 steps of a combining with the material to be heated an.

- L10 ANSWER 22 OF 32 USPATFULL on STN
- Full Tex
- AN 75:38713 USPATFULL
- TI Aerosol package of product containing liquified gas
- IN Laauwe, Robert H., Franklin Lakes, NJ, United States
- PI US 3896970 19750729
- SUMM For example only, aerosol packages of the shampoo, hair coloring and shaving cream type contain formulations which are usually oil-in-water type emulsions, with the liquified compressed gas
- intimately dispersed in the water solution..

 SUMM product in which the liquified compressed gas propellant is intimately dispersed or dissolved. As previously indicated, shampoo,
- hair coloring and **shaving cream** aerosol packages are examples.

 SUMM overrun, only a sputtering or erratic discharge is obtained.

 This changing density is annoying in the case of shampoo and **shaving cream** formulations, as examples, but it may be disastrous in the case
 of a codispensing package where the two products in.
- SUMM Shampoos and shaving cream formulations are usually oil-in-water type emulsions, with the required compressed gas propellant intimately dispersed in the water solution; and in.
- dispersed in the water solution; and in.

 DETD The inner flexible container 5 of all four cans in each instance was charged with 190 grams of a shaving cream formulation and 61/2 grams of a liquified compressed gas propellant; namely, isobutane having a vanor pressure of 31 pounds per.
- DEID . can, the density of the ejected product correspondingly increasing throughout the life of the test. In the case of a shaving cream formulation, for example, this increase in density would result in the cream becoming runnier and runnier, and finally in the.
- DEID . . its physical characteristics from that desired, and resulted in excessive loss of the propellant gas with a consequent large pressure reduction in the package preventing complete discharge of all of the contents of the package. In the case of the present.
- DEID . . . packages have been made using the principles disclosed by FIG.
 2.35 grams of a 10% water solution of sodium thiosulfate (Na.sub.2
 S.sub.2 O.sub.3) was placed in the inner containers which corresponded to the container 15. In the outer container 5a. . .

 DEID . . product on the other end of the plate. In this manner it was
- DEID . product on the other end of the plate. In this manner it was possible to analyze the percent of sodium thiosulfate in the initial and final portions of the extruded product. Three of such packages were tested in the above manner.
- DEID . . the container 5a had a collapse pressure of less than 2 pounds per square inch gauge fluid pressure. Therefore, the reduction it made in the pressure applied to the gasified product by the liquified gas propellant was negligible. Obviously the use.
- L10 ANSWER 23 OF 32 USPATFULL on STN Full Text
- AN 75:8529 USPATFULL
- TI NON-PRESSURIZED PACKAGE CONTAINING SELF-HEATING PRODUCTS
- IN Schmitt, William H., Elmhurst, IL, United States
- PA Alberto Culver Company, Melrose Park, IL, United States (U.S.
- corporation)
 - I US 3866800 19750218

are packaged and from which thev.

- AB . . . an oxidant in an aqueous medium, and the other of said compartments containing a substantially anhydrous composition which includes a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said.
- SUMM . . storage of the two parts of the compositions, one of said parts containing an oxidant and the other containing a reductant, said two parts being adapted to be dispensed simultaneously with mixing whereby, on being admixed, an exothermic reaction occurs. Each of the two-part compositions contains various ingredients, in addition to their respective oxidant and reductant, including substantial proportions of water. The packages or containers in which said two-part compositions
- SUMM . of foam. While they employ separate compositions, one of which contains an oxidant and the other of which contains a reductant, and which separate compositions when admixed together evolve heat and give off a gas or form a foam, they achieve.
- SUMM . . . in an aqueous medium. In the other of said compartments there

- is housed a substantially anhydrous composition which includes a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said. . . for instance, of the order of 70°C ., depending upon a number of factors including the selection of particular oxidants and reductants.
- SUMM The reductant-containing composition which, for convenience, may be called the B composition, will generally contain the reductant (or reducing agent) in proper amount to react with the quantity of oxidant in the A composition. Various reductants can be employed such as sodium or potassium salts of sulfurous acid or thiosulfuric acid as, for instance, sodium sulfite or potassium thiosulfate. Other reductants which can be utilized are shown, for example, in the aforementioned patents. It is particularly preferred to use sodium sulfite.
- The proportions of the oxidant and reductant, in relation to each other, are variable and will depend, of course, upon the particular oxidants and reductants utilized, generally being employed in approximately the proper stoichiometric proportions to achieve the exothermic reaction. In the case of the use of hydrogen peroxide as the oxidant and sodium sulfite as the reductant, I mol % of hydrogen peroxide is desirably used with about 3.7 mol % of sodium sulfite on the anhydrous.
- SUMM In addition to the reductant, or mixtures of reductants, the B composition will also contain a non-aqueous organic solvent in which the reductant is soluble or dispersible or suspendable, and in which organic solvent compressed or compressible gas or gases are dissolved whereby.
- SUMM . . . at room temperatures, or use temperatures, namely, the temperatures which are produced by the interaction of the oxidant and the **reductant** when the A and B compositions are mixed together (at ambient or atmospheric pressure) and which exists as a liquid. . .
- SUMM . present invention includes two flexible or collapsible compartments, one for holding the oxidant-containing composition and the other for holding the reductant-containing composition, the construction being such that, when the package or container is squeezed in the hold substantially compared in the hold.
- in the hand, substantially equal internal pressures.

 DETD . desired unformity of collapsing, creating essentially equal pressures within each of the compartments (15, 16), as well as essentially equal reductions in compartment volumes. Both of the tube elements can be simultaneously compressed by the grasp of a single hand, as.
- DETD . . . the dispenser container, compositions A and B are filled into their respective compartments, such as the compartment 16 for the reductant-containing composition before the end closure 17 is formed, and compartment 15 for oxidant-containing composition. The heat sealed end closure is . . .
- DEID . . . substantial content of water, the water constituting about 37 percent of the (b) mixture and about 30 percent of the shaving cream as a whole. The gas is suspended in a metastable state in the examples as described in the above patent, .

 CLM What is claimed is:
- . . an oxidant in an aqueous medium, and the other of said compartments containing a substantially anhydrous composition which includes a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said.
- CLM What is claimed is:
- compartments containing a substantially anhydrous composition which includes a sodium or potassium salt of sulfurous or thiosulfuric acid as a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said.
- CLM What is claimed is:
- . . . 2, in which the oxidant is a 1 to 20 percent aqueous solution of hydrogen peroxide, and in which the **reductant** is
- CLM What is claimed is: 7. The package of claim 6, in which the reductant-containing composition includes stearic acid, coconut oil fatty acids, diethanolamine, a water-soluble alkylene glycol, cetyl alcohol, and a polyethylene glycol

- CLM What is claimed is: 8. The package of claim 3, in which the vapor pressure of the reductant-containing composition is in the range of from 0 to 10 psig at
- CLM What is claimed is: 11. The package of claim 10, in which the organic solvent in said reductant-containing composition comprises a water-soluble alkylene
- L10 ANSWER 24 OF 32 USPATFULL on STN

- 74:5585 USPATFULL AN
- AEROSOL PACKAGE TI
- Laauwe, Robert H., 237 Ridge Rd., Franklin Lakes, NJ, United States
 - 07417
 - US 3788521 19740129
- SUMM For example only, aerosol packages of the shampoo, hair coloring and shaving cream type contain formulations which are usually oil-in-water type emulsions, with the liquified compressed gas intimately dispersed in the water solution..
- SUMM . . product in which the liquified compressed gas propellant is intimately dispersed or dissolved. As previously indicated, shampoo, hair coloring and shaving cream aerosol packages are examples.
- SUMM . overrun, only a sputtering or erratic discharge is obtained. This changing density is annoying in the case of shampoo and shaving cream formulations, as examples, but it may be disastrous in the case
 of a codispensing package where the two products in. . . .
- SUMM Shampoos and shaving cream formulations are usually oil-in-water type emulsions, with the required compressed gas propellant intimately dispersed in the water solution; and in.
- The inner flexible container 5 of all four cans in each instance was DETD charged with 190 grams of a shaving cream formulation and 6 1/2 grams of a liquified compressed gas propellant; namely, isobutane having a vapor pressure of 31 pounds.
- . . . can, the density of the ejected product correspondingly increasing throughout the life of the test. In the case of a **shaving** DETD cream formulation, for example, this increase in density would result in the cream becoming runnier and runnier, and finally in the. .
- DETD . . . its physical characteristics from that desired, and resulted in excessive loss of the propellant gas with a consequent large pressure reduction in the package preventing complete discharge of all of the contents of the package. In the case of the present. . . .
- DETD . . . have been made using the principles disclosed by FIG. 2. 35 grams of a 10 percent water solution of sodium thiosulfate (Na.sub.2 S.sub.2 O.sub.3) was placed in the inner containers which corresponded to the container 15. In the outer container 5a,.
- DETD . . product on the other end of the plate. In this manner it was possible to analyze the percent of sodium thiosulfate in the initial and final portions of the extruded product. Three of such packages were tested in the above manner.
- . . the container 5a had a collapse pressure of less than 2 pounds DETD per square inch gauge fluid pressure. Therefore, the reduction it made in the pressure applied to the gasified product by the liquified gas propellant was negligible. Obviously the use. . .
- L10 ANSWER 25 OF 32 USPATOLD on STN
- Full Text AN 1974:66209 USPATOLD
- THERMOGENIC SYSTEMS ΤI
- MARGOLIS E IN
- DART INDUSTRIES INC. PA
- PΙ US 3804771 19740416
- DETD Another redox heating system is found in Antonell et al., U.S. Pat. 3,632,516, which employs as a reductani potassium thiosulfate or a 3/03,710, which employs as a reductant potassium unfortile of a mixture of potassium thic sulfate and potassium unfit as sodium tungstat catalyst. While oxidation of thiosulfate ion provides greater heat yield than does the oxidation of thioures the problem with this system is the fact that for ever mole of thiosulfate oxidized, two moles of sulfate io are generated requiring the presence of excess base t prevent the pH from dropping precipitously and inhibi ing the formation of a soap. The thiosulfate and sulfit salts tend to cause gelling of soap compositions and ai also highly corrosive to metal

- dispensing containers an.
- DETD . . . above mixture reached a temperature 11 C. higher and reacted more rapidly in the presence of 0.1% catalyst than did thiosulfate with 0.5% catalyst (the catalyst being sodium molybdate). The same reductant and oxidant combination without sulfite present gave identical results.
- DETD . . . system wherein the two phases are mixed immediately before use. One phase contains an oxidant and the other contains a reductant whereby mixing the two evolves enough heat to produce a sensible rise in the temperature of the dispensed mixture. A. . . at least C. above room temperature is generally considered desirable. In the specific examples given hereinbelow, the weight ratio of reductant to oxidant was about 3:1. This 4,7 1 effected a temperature rise greater than F. in the dispensed product. It. .
- DETD . . . a two-part system within isolated compartments in a dispensing package. The hydrogen peroxide being in one part and the thermogen (reductant) in the other part. The thermogen part may contain the consumertype ingredients if compatible. It is to be understood that.
- DETD As mentioned, the oxidant and reductant compositions are packaged within a container in such a way as to remain isolated from each other. Valve means are. . . . The proportion of oxidants and **reductants** to the total composition
- DETD depends upon how much heat is desired, how much heat is required to heat the composition. . . dissipated. Generally, a much higher temperature rise will be utilized in hot windshield deicing compositions or engine degreasing compositions than shaving cream or cleansing preparations or other personal-use products. EXAMPLE 1.HOT SHAVING CREAM
- DETD
- L10 ANSWER 26 OF 32 USPATOLD on STN
- Full Text AN 19
- 1972:58646 USPATOLD SELF HEATING LATHER
- TI IN BODEN HERBERT
- ANTONELLI JOSEPH A
- PA E. I. DU PONT DE NEMOURS AND COMPANY US 3632516 A 19720104
- PΙ
- DETD Another system, Moses et al., U.S. Pat. 3,341,418, employs a redox reaction with non-electrolyte reductants contained in a soap solution and hydrogen peroxide or urea hydrogen peroxide oxidants. The particular reductants utilized are thiourea and various thiobarbituric acid derivatives. The reaction of hydrogen peroxide with thiourea is accompanied by an unpleasant.
- DETD . in Hayes et al., U.S. Pat. 3,326,416 and employs heating by redox reaction with hydrogen peroxide oxidant and potassium sulfilte reductant. The high concentration of potassium sulfilte necessary to effect a satisfactory temperature increase has a rapid corrosive effect on the. .
- DETD . . lather to a C. increase in temperature, assuming the ratio of the volume of hydrogen peroxide to solution containing the reductant is 1:4.
- DETD leaving little room for the generated gas, it is readily appreciated that the developed pressure would be very high. Potassium thiosulfate would appear, from consideration of the small amounts required as shown in Table 1, to be an excellent reductant. Further, the thiosulfate salt can be introduced into soap solution to about 12.5 wt. percent, a concentration theoretically more than adequate to heat.
- . of total composition, (B) Hydrogen peroxide which is capable of DETD reacting with rapid generation of heat when contacted with a reductant, (C) A reductant composition capable of reacting at 25 room temperature with said hydrogen peroxide to produce heat, said
- reductant composition being selected from the group consisting of: (a) Potassium thiosulfate and a catalytic amount of sodium, tungstate DETD (b) A mixture of potassium thiosulfate and potassium sulfite and a catalytic amount of sodium tungstate; materials (B) and (C) being isolated from sach other when. pressurized dispenser, said lather being heated by a redox
- DETD reaction between separately contained but co-dispensed hydrogen peroxide oxidant and a reductant composition contained in a soap solution, the improvement comprising the use of a reductant composition selected

- from the group consisting of:

 DETD (A) Potassium thiosulfate and a catalytic amount of sodium tungstate,

 (B) A mixture of potassium thiosulfate and potassium sulfite and a catalytic amount of sodium tungstate.
- DETD . . . invention comprises a warm aqueous foam composition obtained by intimately GO contracting an aqueous foamable composition with H2O2 and a reductant composition described as above.
- DEID Any dispensing container may be employed in the package of this invention provided the container maintains the oxidant and the reductant in separate compartments prior to dispensing them. One such container is depicted in the drawing and is described as follows.
- container is depicted in the drawing and is described as follows.

 DETD . . from the pressurized container. The type and concentration of agent is readily determined by one skilled in the art. For **shaving foam**, however, the composition usually contains about four to about thirty percent by weight of foam producing agent. Useful such agents.
- DETD The reactants of the present invention are stored separately within the dispenser, one reactant (the reductant composition) being maintained in the aqueous dispersion of a foamable composition. When this reductant composition is the mixture of potassium thiosulfate and potassium sulfite in the presence of catalytic amounts of sodium tungstate, the mole ratio of the potassium thiosulfate to potassium sulfite is not critical; however, preferably the mole ratio should be about 0.4 to 0.9. Also for good results, the amount of the reductant composition in the aqueous dispersion should range from 3% to 8% by weight. The amount of catalyst present should range from .05% to .85% by weight of the reductants employed. The other reactant (hydrogen peroxide oxidant) is stored in an inner container, preferably a collapsible compartment within and smaller. . . outside container. the amount of hydrogen peroxide oxidant stored therein being chemically equivalent to or less than the amount of reductant present. The liquid reactants are dispensed simultaneously through an outlet after passing through the valve at the top of the outer container. In general, the dispersing ducts of the container are adjusted so that an excess of the reductant with catalyst-up to 20%-is combined with the hydrogen peroxide in order to avoid the possibility of an excess amount of.

 . stored at room temperature until needed but had to be rewarmed.
- DEID stored at room temperature until needed but had to be rewarmed before blending with part B. Part B contains the reductant composition (described as material (C) in this invention) and was prepared as follows:
- DETD Part B Deionized water was heated to C. and reductants (material (C) variable percent, see examples)1, potassium hydroxide (1.2%) and triethanolamine (3.5%) were dissolved in the water.
- DETD . after reaction as measured with pH paper. Raising the pH of the soap solution, of course, promotes the reaction of **thiosulfate** ion with hydrogen peroxide.
- DEID In the examples, except as otherwise indicated, 20 10 grams of the above-described soap solutions containing reductant(s) in proportions stated in each example were reacted with 5 g, aqueous hydrogen peroxide of the stated concentration. The 4:1.
- DETD Weight percent of **reductants** in the examples is :based 3n the weight of the soap solution. Weight percent of hydrogen peroxide is the concentration. . . .
- DEID EXAMPLE 7 This: example and the following example Demonstrate the effectiveness: of sodium tungstate in \$203-9/603- combined reductant system. It is seen that 0.25% sodium tungstate effects a reaction satisfactory in all respects.
- DETD .. weight of soap solution for each part of weight of hydrogen peroxide solution, the ratio of equivalents of oxidant to reductants is 1.0. A slight excess of reductant is usually preferred.
- DETD EXAMPLE This example shows in two concentrations of hydrogen peroxide the performance replication of pressurized dispensers using K2S2C>3-Na2MO4 reductant, over a period of 46 days.
- DETD EXAMPLE 11 K2S03 (4 wt. percent) reductant in soap solution was combined with H2O2 (3.5 wt. percent) where percent of theoretical
- equivalents of H202 present was 102.

 DETD EXAMPLE 12 The reductant employed in the soap solution was K2S20s (3.0 wt. percent) and was combined with H202 (8.2 wt. percent) where the.
- DETD This example combined K2S203 (4.0 wt. percent) reductant in soap solution with H202 (8.2 wt. percent) where the percent of theoretical equivalents of H202 present was 71.7. As.

CLM

- of total composition, (B) hydrogen peroxide which is capable of reacting with rapid generation of heat when contacted with a reductant, (C) a reductant composition present in an amount between 3 and 8% based on the weight of (A) present, said reductant composition being capable of reacting at room temperature with the said hydrogen peroxide to produce heat, and said reductant composition being selected from the group consisting of (a) potassium thiosulfate and a catalytic amount of sodium tungstate, and (b) a mixture of potassium thiosulfate and potassium sulfite and a catalytic amount of sodium tungstate the amount of (B) present being chemically equivalent to or. . is being conveyed toward said outlet.

 2. A package according to claim 1 in which the re-ductant composition is
 - A package according to claim 1 in which the re-ductant composition is potassium thiosulfate in the presence of catalytic amounts of sodium tungstate.
 - 3. A package according to claim 1 in which the re-ductant composition is a mixture of potassium thiosulfate and potassium sulfite in the presence of catalytic amounts of sodium tungstate.
 - 4. A package according to claim 1 in. . .

L10 ANSWER 27 OF 32 USPATOLD on STN

AN 1963:41424 USPATOLD

TI Protective coating IN SCHUSTER LUDWIG K

BALDI JR ALFONSO L

PI US 3112231 A 19631126

- DETD The properties of the coating can be varied by the type of reducing agent, its amount, and the reduction temperature. The reducing agent is preferably one that does not leave water-soluble salts in the final coating layer. Compatible reducing.
- DETD The amount of reduction depends upon the type and amount of reducing agent used and temperature of reduction. A general rule to follow is the higher the reducing agent content and the higher the reduction temperature the more reduction of the hexavalent chromium in the chromic acid. Coatings with to 70% reduction of the hexavalent chromium are more highly colored, having a brown to brownish green appearance. Coatings having conversions of hexavalent.
- DETD . well as the proper conversion temperature. A general rule is to use a lower CrO3-to reducing agent ratio, a higher reduction temperature, and most effective, a combination of both. For coatings of highest conversion, it is preferable to incorporate the least. the curing operation to effect maximum conversion. For example, to obtain a l milligram per square foot coating having 95% reduction, it is better to use, in the case of sucrose, a ratio of 3 parts by weight of CrO3 to.
- DEID

 ... aqueous solution of NaOH by weight at F. or higher, titrating
 the hexavalent content of the resulting solution with sodium
 thiosulfate in the presence of potassium iodide, and subtracting this
 content from the total chromium content which is determined by oxidizing
 another dissolved coating sample with H2O2 and again titrating with
 sodium thiosulfate in the same way.
- DETD . . . dissolving operations because of the chemical action on the metal. Apparently the nascent hydrogen generated by the reaction effects the reduction. The hexavalent chromium content that any coating bath provides can also be determined by applying the coating bath in exactly.
- DEID . . . agent. Longchained alkyl sulfates are suitable and tertiary butyl alcohol will be effective although it does not cause any appreciable reduction and is generally required to be in higher concentration, e.g. 0.5% to provide really effective go wetting. In general, however, .
- DETD . . . of the solution in which the coating is dissolved, this content can be obtained by titrating the solution with sodium thiosulfate as referred to above.
- DETD The following example shows the corrosion **reduction** obtained by the resin-chromic acid coating:
- DETD . . . preliminary nitric acid etch it used, is suitable for many commercial purposes such as pressure-type containers for solutions of self-lathering shaving cream as described in U.S. Patent 2,655,480, granted October 31, 1953. The presence of the resin not only improves the adhesion . . .

DETD . . paint or enamel layer. Without the etch and without the resin, the protection although poorer, is still effective for the shaving-cream container use. On other metals such as copper, and chromium type stainless iron alloys similar improvements are provided by

L10 ANSWER 28 OF 32 USPATOLD on STN

1953:22984 USPATOLD AN

TI One step photographic transfer process

LAND EDWIN H IN PΙ

US 2647056 19530728 A

DETD . . . from a suitable container as, for example, a tubular, collapsible, metallic container of the type used for containing tooth paste, shaving cream, and the like. It will be observed (Pig. 1) that the liquid is located, upon dispensation, in a fairly concentrated.

a soluble silver complex with the undeveloped silver halide of DETD the photosensitive layer are sodium thiosulf ate, sodium thiocyanate, ammonium thiosulfate, ammonia and sodium cyanide.

. . . at room temperature, and the solution is mixed therein for DETD approximately one hour. Thereafter, the sodium sulfite, sodium hydroxide, sodium thiosulfate and citric acid are added to the solution, the addition being effected in an inert atmosphere, for example of nitrogen.. . .

DETD Hydroquinone ----- g- 33 Sodium thiosulfate ----- g 14 An aqueous solution of Hercules or Dow carboxymethyl cellulose, sodium salt, medium viscosity, consisting of 200 g.. . in the same way as the materials of Example 1, or in the alternative, the sodium sulfite, hydroquinone, and sodium thiosulfate are dissolved in the water, and the sodium carboxymethyl cellulose solution is then added and thoroughly mixed therewith.

DETD ----- g lo.o Sodium thiosulfate g__ 100 SQdium alglnate cellulose ethers such as ethyl Aqueous solution of medium viscosity sodf0mncarb xlme1 f! cellulose e. . . tively high speed orthochromatic films, e. g Sodium hydroxide ______ 5
Eastman Kodak Verichrome film having an ASA Sodium thiosulfate 1.5 Sodium sulfite ______ 9 high speed panchromatic emulsions, e. g Eastare dissolved in cc. of water, and the solution. . .

____ uo godium thiosulfate Sodium h droxide _____ DETD

_ Jg Citric acid _ DETD Preferably, when these higher speed emulsions are USed, the sodium thiosulfate content of each Oj e preceding processing agents of Figs. 1 is substantially increased, being preferably quadrupled. Improvements in the.

when dissolved in the liquid of the processing composition. For DETD example, it is possible to provide the ions, e. g thiosulfate, cvanide, or thiocvanate ions, which form the soluble silver complex with the unexposed silver halide in the foregoing process by providing a thiosulfate, cyanide, or thiocyanate salt on the image-receiving layer 6 which will dissolve in the processing liquid.

DETD . . . and dried after the immersion and is then dipped for thirty seconds in another bath which contains 25 of sodium thiosulfate and 100 cc. of water This second treatment causes 5 there j added one the formation of lead thiosulfate in the surface of the baryta paper. The coating of lead thiosulfate may also be provided, for example, by adding to a 20% water solution of neutral lead acetate a 5% xvater solution of sodium thiosulfate and then rubbing the precipitate

produced by this mixture onto the baryta paper.
. . . of the processing agent and caused to develop the latent image DETD in the photosensitive emulsion and to participate in the reduction of the soluble silver halide complex to silver. Sheets 1 0 and 1 6 are kept assembled for approximately one.

CLM provide all the liquid for the development of said latent image, which processing agent is alkaline and comprises hydroquinone, sodium

thiosulfate and sodium carboxymethyl cellulose in a sufficient concentration to impart to said processing agent a viscosity at 24 C.

development, of said latent image, said processing agent comprising, an alkaline aqueous solution of sodium carboxymethyl cellulose, hydroquinone and,; sodium thiosulfate and having, a viscosity, at 24 Ci to excess of 1000 centipoises spreading said processing agent in a layer between.

L10 ANSWER 29 OF 32 USPAT2 on STN

2005:131808 USPAT2

- Block polymers, compositions and methods of use for foams, laundry detergents, shower rinses and coagulants
- Yeung, Dominic Wai-Kwing, Ontario, CANADA Bergeron, Vance, Antony, FRANCE Bodet, Jean-François, Mason, OH, UNITED STATES Sivik, Mark R., Ft. Mitchell, KY, UNITED STATES Kluesener, Bernard W., Harrison, OH, UNITED STATES Scheper, William M., Lawrenceburg, IN, UNITED STATES
- Rhodia Inc., Cranbury, NJ, UNITED STATES (U.S. corporation) US 7335700 B2 20080226 PA

ΡI

- AB . fabric cleaning compositions. The polymeric material is also effective in oil well treating foam, fire-fighting foam, hard surface cleaning foam, shaving cream, post-foaming shaving gel, dephiliatories and as a coagulant/retention aid for titanium dioxide in paper making.
- SUMM . . aspect, the present invention provides methods and compositions for personal care, such as shampoos, soaps (hand washes and body washes), shaving cream, post foaming shaving gel, and dephiliatories, oil field foam, fire fighting foam, agrochemical foam, hard surface (e.g., bathroom tile) foam cleaner, shower rinse, fabric.
- DETD For the other uses of these block polymers, such as personal care (e.g., hand wash, body wash, shampoo, shaving cream, post-foaming shaving gel, diphiliatories), oil field foam, fire fighting foam, agrochemical foam, hard surface (e.g., bathroom tile) cleaner foam, shower rinse, and coaqulants.
- DETD . . . or an alkoxylated derivative (preferably ethoxylated or propoxylated) thereof. Z preferably will be derived from a reducing sugar in a reductive amination reaction; more preferably Z will be a glycityl. Suitable reducing sugars include glucose, fructose, maltose, lactose, galactose, mannose, and. .
- . . . in the art. In general, they can be made by reacting an alkyl DETD amine with a reducing sugar in a reductive amination reaction to form a corresponding N-alkyl polyhydroxyamine, and then reacting the N-alkyl polyhydroxyamine with a fatty aliphatic ester or.
- DETD . . . provide cleaning performance benefits. Said enzymes include enzymes selected from cellulases, hemicellulases, peroxidases, proteases, gluco-amylases, amylases, lipases, cutinases, pectinases, xylanases, reductases, oxidases, phenoloxidases, lipoxygenases, ligninases, pullulanases, tannases, pentosanases, malanases, β-glucanases, arabinosidases or mixtures thereof. A preferred combination is a detergent composition.
- . . . of the present invention. They can be any conventional DETD antioxidant used in detergent compositions, such as 2,6-di-tert-butyl-4methylphenol (BHT), carbamate, ascorbate, thiosulfate, monoethanolamine (MEA), diethanolamine, triethanolamine, etc. It is preferred that the antioxidant, when present, be present in the composition from about. . .
- DETD . . (e.g., sodium and potassium dichloroisocyanurates), peroxyacid bleaches (e.g., diperoxydodecane-1,12-dioic acid), inorganic percompound bleaches (e.g., sodium perborate), antioxidants as optional stabilizers, reductive agents, activators for percompound bleaches (e.g., tetraacetylethylenediamine and sodium nonanoyloxybenzene sulfonate). soil suspending agents (e.g., sodium carboxymethyl cellulose), soil anti-redisposition.
- DETD . . the reactor to form the polymerization mixture. The initiator can be a single organic or inorganic compound or a redox (reduction/oxidation) system of two or more compounds. For example, U.S. Pat. No. 5,863,526, incorporated herein by reference in its entirety, discloses. . .
- L10 ANSWER 30 OF 32 USPAT2 on STN

AN

- 2002:294312 USPAT2
- TI External compositions for skin comprising sphingoglycolipid IN Murata, Katsumi, Tokvo, JAPAN

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Nozawa, Takashi, Tokvo, JAPAN
       Hara, Hisako, Tokyo, JAPAN
       Asai, Michiki, Tokyo, JAPAN
       Wakayama, Sachio, Tokyo, JAPAN
PA
       Kibun Food Chemifa Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)
US 6514744 B2 20030204
PI
SUMM
       . . . shadow, cream or milky lotion, toilet lotion, perfume, face
       powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance,
       powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan
       oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening
       cream, foundation, powdery fragrance, cheek rouge, mascara,. .
SUMM
       . . . shadow, cream or milky lotion, toilet lotion, perfume, face
       powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance,
       powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan
       oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening
       cream, foundation, powdery fragrance, cheek rouge, mascara,.
SUMM
       . . . the section for polyol), inorganic salts (e.g. sodium chloride,
       sodium hydrogen carbonate, sodium carbonate, borax, sodium sulfate,
       sodium sulfide, sodium thiosulfate, sodium sesquicarbonate, magnesium
       oxide, calcium carbonate, magnesium carbonate, potassium chloride,
       potassium sulfide), cultured lactic acid bacteria, sterols (e.g.
       cholesterol, provitamin. . .
       . . . ----
Oxidation on O-F d - - - -
Alkalization on - - - - -
O-F medium
Reduction of - - - - -
nitrate to nitrite
Simmons' citric - - - - -
acid agar
Christensen's d + +. . .
DETD . . . -
Lysine decarboxylase - - - - -
Ornithine - - - - - -
decarboxylase
Selenic salt - - - - -
reduction
Casein hydrolysis - - - - -
DNase (HCl method) + + + + + +
Thomley arginine - - - . . .
Tyrosine hydrolysis + + + + + +
Brown dye production d + + + + +
on tyrosine agar
medium
Nitrite reduction - - - - -
Growth on PHBA + + + + +
Endogenous PHBA + + + + +.
L10 ANSWER 31 OF 32 USPAT2 on STN
Full Text
AN 2002:164425 USPAT2
TI
       Cosmetic, personal care, cleaning agent, and nutritional supplement
       compositions and methods of making and using same
       Lee, Sean, Karlsruhe, GERMANY, FEDERAL REPUBLIC OF
       Kessler, Susanna, Ergolding, GERMANY, FEDERAL REPUBLIC OF
       Forberich, Oliver, Oberursel, GERMANY, FEDERAL REPUBLIC OF
       Buchwar, Claire, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF
       Greenspan, David C., Gainesville, FL, UNITED STATES
       Schott AG, Mainz, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)
PA
PΙ
       US 7250174
                        B2 20070731
DETD
         . . also be evaporated to provide a solid material with
       anti-microbial properties. These compositions can be used in situations
       where elimination, reduction, or prevention of microbes, including but
       not limited to bacteria, viruses, and fungi would be advantageous, for
       example, in cosmetic. .
DETD
            . effect of bioactive glass. The anti-inflammatory effects of
       bioactive glass make it particularly useful in skin care formulations by
       promoting reductions in irritation, itching, redness and rashes.
      The present invention provides for novel formulations of shaving
DETD
       cream and gel products by incorporating bioactive glass into a
```

combination of any of the above-listed ingredients.

```
DETD
            . fit inside dentin tubules that are approximately 1-2 microns in
       diameter. The occlusion of these tubules leads to a significant
       reduction in the amount of sensitivity after, for example, periodontal
       surgery. A particularly effective combination includes a mixture of
       DETD
       liquifilm, phenylephrine HCl, sodium acetate, sodium thiosulfate and
       hydrochloric acid.
DETD
       . . . comprised a sol-gel-derived bioactive glass powder mixed with a
       commercially available facial cream. This product gave the appearance of
       wrinkle reduction and skin-tightening when applied to the face.
       The reduction in microbial growth correlates with a pH increase in the
DETD
       medium.
DETD
               solution would significantly increase the hardness of the
       solution. It was therefore expected that calcification would increase
       resulting in a reduction of cleaning action, so that these glasses
       would not be suitable for use as washing and cleaning agents. Moreover,
       it. . .
L10 ANSWER 32 OF 32 USPAT2 on STN
AN
       2002:12038 USPAT2
TI
       External composition for skin comprising sphingoglycolipid
IN
       Murata, Katsumi, Tokyo, JAPAN
       Nozawa, Takashi, Tokyo, JAPAN
       Hara, Hisako, Tokyo, JAPAN
       Asai, Michiki, Tokyo, JAPAN
       Wakayama, Sachio, Tokyo, JAPAN
Kibun Food Chemifa Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)
US 6348201 B2 20020219
PA
PΙ
SUMM
       . . . shadow, cream or milky lotion, toilet lotion, perfume, face
       powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance,
       powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan
       oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening
       cream, foundation, powdery fragrance, cheek rouge, mascara,. .
       . . . shadow, cream or milky lotion, toilet lotion, perfume, face powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance,
SUMM
       powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan
       oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening
       cream, foundation, powdery fragrance, cheek rouge, mascara,.
SUMM
       . . . the section for polyol), inorganic salts (e.g. sodium chloride,
       sodium hydrogen carbonate, sodium carbonate, borax, sodium sulfate,
       sodium sulfide, sodium thiosulfate, sodium sesquicarbonate, magnesium
       oxide, calcium carbonate, magnesium carbonate, potassium chloride,
       potassium sulfide), cultured lactic acid bacteria, sterols (e.g.
       cholesterol, provitamin. .
(kovacs)
Oxidation d - - - -
on O-F
medium
Alkalization - - - - -
on O-F
Reduction of - - - - -
nitrate to
nitrite
Simmons' - - - - -
citric acid
agar
DETD . . .
decar-
boxvlase
Ornithine - - - - -
decar-
boxylase
Selenic - - - - -
salt
reduction
Casein - - - - -
```

hvdrolvsis DNase + + + + + + (HC1 method) Thomley - - - - . . . + + hvdrolvsis Brown dye d + + + + + production on tyrosine agar medium Nitrite - - - - reduction Growth on + + + + + + PHBA Endogenous + + + + +PHBA accumulation Fluorescent - - -. What is claimed is:

- . shadow, cream or milky lotion, toilet lotion, perfume, face powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance, powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening cream, foundation, powdery fragrance, cheek rouge, mascara,
- 5. The method of claim 4 wherein said composition is a toilet soap, shampoo, cleaning foam or shaving cream.
- CLM What is claimed is:

 23. A method of using the external composition for skin prepared by the method according to claim 7 as a. . shadow, cream or milky lotion, toilet lotion, perfume, face powder, facial oil, hair-care cosmetics, hair dye, jelly fragrance, powder, pack, shaving cream, shaving lotion, suntan oil, anti-suntan oil, suntan lotion, sun-screening lotion, suntan cream, sun-screening cream, foundation, powdery fragrance, cheek rouge, mascara, c
- L10 ANSWER 23 OF 32 USPATFULL on STN

AN 75:8529 USPATFULL

- TI NON-PRESSURIZED PACKAGE CONTAINING SELF-HEATING PRODUCTS
- IN Schmitt, William H., Elmhurst, IL, United States
- PA Alberto Culver Company, Melrose Park, IL, United States (U.S.
- corporation)
 - US 3866800 19750218
- AB an oxidant in an aqueous medium, and the other of said compartments containing a substantially anhydrous composition which includes a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said. . . .
- SUMM ... storage of the two parts of the compositions, one of said parts containing an oxidant and the other containing a reductant, said two parts being adapted to be dispensed simultaneously with mixing whereby, on being admixed, an exothermic reaction occurs. Each of the two-part compositions contains various ingredients, in addition to their respective oxidant and reductant, including substantial proportions of water. The packages or containers in which said two-part compositions are packaged and from which they.
- SUMN . of foam. While they employ separate compositions, one of which contains an oxidant and the other of which contains a reductant, and which separate compositions when admixed together evolve heat and give off a gas or form a foam, they achieve.
- SUMM . . . in an aqueous medium In the other of said compartments there is housed a substantially anhydrous composition which includes a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said. . for instance, of the order of 70°C., depending upon a number of factors including the selection of particular oxidants and reductants.
- SUMM The reductant-containing composition which, for convenience, may be called the B composition, will generally contain the reductant (or reducing agent) in proper amount to react with the quantity of oxidant

- in the A composition. Various **reductants** can be employed such as sodium or potassium salts of sulfurous acid or thiosulfuric acid as, for instance, sodium sulfite or potassium **thiosulfate**. Other **reductants** which can be utilized are shown, for example, in the aforementioned patents. It is particularly preferred to use sodium sulfite.
- The proportions of the oxidant and reductant, in relation to each other, are variable and will depend, of course, upon the particular oxidants and reductants utilized, generally being employed in approximately the proper stoichiometric proportions to achieve the exothermic reaction. In the case of the use of hydrogen peroxide as the oxidant and sodium sulfite as the reductant, I mol % of hydrogen peroxide is desirably used with about 3.7 mol % of sodium sulfite on the anhydrous.
- SUMM In addition to the reductant, or mixtures of reductants, the B composition will also contain a non-aqueous organic solvent in which the reductant is soluble or dispersible or suspendable, and in which organic solvent compressed or compressible gas or gases are dissolved whereby.
- SUMM ... at room temperatures, or use temperatures, namely, the temperatures which are produced by the interaction of the oxidant and the reductant when the A and B compositions are mixed together (at ambient or atmospheric pressure) and which exists as a liquid.
- SUMM . . . present invention includes two flexible or collapsible compartments, one for holding the oxidant-containing composition and the other for holding the reductant-containing composition, the construction being such that, when the package or container is squeezed in the hand, substantially equal internal pressures.
- DEID . . . the dispenser container, compositions A and B are filled into their respective compartments, such as the compartment 16 for the reductant-containing composition before the end closure 17 is formed, and compartment 15 for oxidant-containing composition. The heat sealed end closure is . . .
- . an oxidant in an aqueous medium, and the other of said compartments containing a substantially anhydrous composition which includes a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said.
- CLM What is claimed is: . . . compartments containing a substantially anhydrous composition which includes a sodium or potassium salt of sulfurous or thiosulfuric acid as a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic
- CLM What is claimed is:
 . . 2, in which the oxidant is a 1 to 20 percent aqueous solution of hydrogen peroxide, and in which the reductant is

solvent, said.

- CLM What is claimed is: 7. The package of claim 6, in which the reductant-containing composition includes stearic acid, coconut oil fatty acids, diethanolamine, a water-soluble alkylene glycol, cetyl alcohol, and a polyethylene glycol
- CLM What is claimed is: 8. The package of claim 3, in which the vapor pressure of the reductant-containing composition is in the range of from 0 to 10 psig at
- CLM What is claimed is:
 11. The package of claim 10, in which the organic solvent in said
 reductant-containing composition comprises a water-soluble alkylene

- L10 ANSWER 25 OF 32 USPATOLD on STN
- Full Text
- 1974:66209 USPATOLD AN THERMOGENIC SYSTEMS
- TI IN MARGOLIS E
- DART INDUSTRIES INC. PA
- PΙ US 3804771 19740416
- DETD Another redox heating system is found in Antonell et al., U.S. Pat. 3,632,516, which employs as a reductani potassium thiosulfate or a mixture of potassium thic sulfate and potassium sulfite with a sodium tungstat catalyst. While oxidation of thiosulfate ion provides greater heat yield than does the oxidation of thioures the problem with this system is the fact that for ever mole of thiosulfate oxidized, two moles of sulfate io are generated requiring the presence of excess base t prevent the pH from dropping precipitously and inhibi ing the formation of a soap. The thiosulfate and sulfit salts tend to cause gelling of soap compositions and ai also highly corrosive to metal dispensing containers an.
- . . . above mixture reached a temperature 11 C. higher and reacted DETD more rapidly in the presence of 0.1% catalyst than did thiosulfate with 0.5% catalyst (the catalyst being sodium molybdate). The same reductant and oxidant combination without sulfite present gave identical results.
- DETD . . system wherein the two phases are mixed immediately before use. One phase contains an oxidant and the other contains a reductant whereby mixing the two evolves enough heat to produce a sensible rise in the temperature of the dispensed mixture. A. . . at least C. above room temperature is generally considered desirable. In the specific examples given hereinbelow, the weight ratio of reductant to oxidant was about 3:1. This 4,71 effected a temperature rise greater than F. in the dispensed product. It. . . .
- . . . a two-part system within isolated compartments in a dispensing package. The hydrogen peroxide being in one part and the thermogen DETD (reductant) in the other part. The thermogen part may contain the consumertype ingredients if compatible. It is to be understood that. .
- As mentioned, the oxidant and reductant compositions are packaged DETD within a container in such a way as to remain isolated from each other. Valve means are. .
- The proportion of oxidants and reductants to the total composition DETD depends upon how much heat is desired, how much heat is required to heat the composition. . . dissipated. Generally, a much higher temperature rise will be utilized in hot windshield deicing compositions or engine degreasing compositions than shaving cream or cleansing preparations or other personal-use products.
- DETD EXAMPLE 1.HOT SHAVING CREAM
- L10 ANSWER 26 OF 32 USPATOLD on STN
- AN
- 1972:58646 USPATOLD ΤI SELF HEATING LATHER
- IN BODEN HERBERT
- ANTONELLI JOSEPH A
- PA E. I. DU PONT DE NEMOURS AND COMPANY
- ΡI US 3632516 A 19720104
- Another system, Moses et al., U.S. Pat. 3,341,418, employs a redox DETD reaction with non-electrolyte reductants contained in a soap solution and hydrogen peroxide or urea hydrogen peroxide oxidants. The particular reductants utilized are thioured and various thiobarbituric acid derivatives. The reaction of hydrogen peroxide with thiourea is accompanied by an unpleasant.
- DETD . . in Hayes et al., U.S. Pat. 3,326,416 and employs heating by redox reaction with hydrogen peroxide oxidant and potassium sulfilte reductant. The high concentration of potassium sulfilte necessary to effect a satisfactory temperature increase has a rapid corrosive effect on the.
- DETD lather to a C. increase in temperature, assuming the ratio of the volume of hydrogen peroxide to solution containing the reductant is 1:4.
- leaving little room for the generated gas, it is readily DETD appreciated that the developed pressure would be very high. Potassium thiosulfate would appear, from consideration of the small amounts

- required as shown in Table 1, to be an excellent reductant. Further, the thiosulfate salt can be introduced into soap solution to about 12.5 wt. percent, a concentration theoretically more than adequate to heat.
- DEID . of total composition, (B) Hydrogen peroxide which is capable of reacting with rapid generation of heat when contacted with a reductant, (C) A reductant composition capable of reacting at 25 room temperature with said hydrogen peroxide to produce heat, said
- reductant composition being selected from the group consisting of:

 (a) Potassium thiosulfate and a catalytic amount of sodium, tungstate

 (b) A mixture of potassium thiosulfate and potassium sulfite and a catalytic amount of sodium tungstate; materials (B) and (C) being
- isolated from sach other when.

 DEID . pressurized dispenser, said lather being heated by a redox reaction between separately contained but co-dispensed hydrogen peroxide oxidant and a reductant composition contained in a soap solution, the improvement comprising the use of a reductant composition selected from the group consisting of:
- DETD (A) Potassium thiosulfate and a catalytic amount of sodium tungstate,
 (B) A mixture of potassium thiosulfate and potassium sulfite and a
 catalytic amount of sodium tungstate.
- DETD . . . invention comprises a warm aqueous foam composition obtained by intimately GO contracting an aqueous foamable composition with H2O2 and a reductant composition described as above.
- DETD Any dispensing container may be employed in the package of this invention provided the container maintains the oxidant and the reductant in separate compartments prior to dispensing them. One such container is depicted in the drawing and is described as follows.
- container is depicted in the drawing and is described as follows.

 . . . from the pressurized container. The type and concentration of agent is readily determined by one skilled in the art. For shaving foam, however, the composition usually contains about four to about thirty percent by weight of foam producing agent. Useful such agents.
- DETD The reactants of the present invention are stored separately within the dispenser, one reactant (the reductant composition) being maintained in the aqueous dispersion of a foamable composition. When this reductant composition is the mixture of potassium thiosulfate and potassium sulfite in the presence of catalytic amounts of sodium tungstate, the mole ratio of the potassium thiosulfate to potassium sulfite is not critical; however, preferably the mole ratio should be about 0.4 to 0.9. Also for good results, the amount of the reductant composition in the aqueous dispersion should range from 3% to 8% by weight. The amount of catalyst present should range from .05% to .85% by weight of the reductants employed. The other reactant (hydrogen peroxide oxidant) is stored in an inner container, preferably a collapsible compartment within and smaller. . . outside container, the amount of hydrogen peroxide oxidant stored therein being chemically equivalent to or less than the amount of reductant present. The liquid reactants are dispensed simultaneously through an outlet after passing through the valve at the top of the outer container. In general, the dispersing ducts of the container are adjusted so that an excess of the reductant with catalyst-up to 20%-is combined with the hydrogen peroxide in order to avoid the possibility of an excess amount of.
- DETD . . stored at room temperature until needed but had to be rewarmed before blending with part B. Part B contains the reductant composition (described as material (C) in this invention) and was prepared as follows:
- DETD Part B Deionized water was heated to C. and reductants (material (C) variable percent, see examples)1, potassium hydroxide (1.2%) and triethanolamine (3.5%) were dissolved in the water.
- DETD . . . after reaction as measured with pH paper. Raising the pH of the soap solution, of course, promotes the reaction of **thiosulfate** ion with hydrogen peroxide.
- DETD In the examples, except as otherwise indicated, 20 10 grams of the above-described soap solutions containing reductant(s) in proportions stated in each example were reacted with 5 g, aqueous hydrogen peroxide of the stated concentration. The 4:1.
- DETD Weight percent of **reductants** in the examples is :based 3n the weight of the soap solution. Weight percent of hydrogen peroxide is the concentration. . .
- DETD EXAMPLE 7 This: example and the following example Demonstrate the effectiveness : of sodium tungstate in S203=/S03= combined reductant

system. It is seen that 0.25% sodium tungstate effects a reaction satisfactory in all respects.

DETD . weight of soap solution for each part of weight of hydrogen peroxide solution, the ratio of equivalents of oxidant to reductants is 1.0. A slight excess of reductant is usually preferred.

DETD EXAMPLE This example shows in two concentrations of hydrogen peroxide the performance replication of pressurized dispensers using K2S2C>3-Na2WO4 reductant, over a period of 46 days.

EXAMPLE 11 K2SO3 (4 wt. percent) reductant in soap solution was DETD combined with H202 (3.5 wt. percent) where percent of theoretical equivalents of H2O2 present was 102..

EXAMPLE 12 The reductant employed in the soap solution was K2S2Os (3.0 DETD wt. percent) and was combined with H2O2 (8.2 wt. percent) where the.

DETD This example combined K2S2O3 (4.0 wt. percent) reductant in soap solution with H202 (8.2 wt. percent) where the percent of theoretical equivalents of H2O2 present was 71.7. As.

CLM of total composition, (B) hydrogen peroxide which is capable of reacting with rapid generation of heat when contacted with a reductant, (C) a reductant composition present in an amount between 3 and 8% based on the weight of (A) present, said reductant composition being capable of reacting at room temperature with the said hydrogen peroxide to produce heat, and said reductant composition being selected from the group consisting of (a) potassium thiosulfate and a catalytic amount of sodium tungstate, and (b) a mixture of potassium thiosulfate and potassium sulfite and a catalytic amount of sodium tungstate the amount of (B) present being chemically equivalent to or. . . is being conveyed toward said outlet.

2. A package according to claim 1 in which the re-ductant composition is potassium thiosulfate in the presence of catalytic amounts of sodium tungstate.

3. A package according to claim 1 in which the re-ductant composition is a mixture of potassium thiosulfate and potassium sulfite in the presence of catalytic amounts of sodium tungstate. 4. A package according to claim 1 in. . .

=> d 110 an ti in pa pi kwic 23 25 26

L10 ANSWER 23 OF 32 USPATFULL on STN

AN 75:8529 USPATFULL

NON-PRESSURIZED PACKAGE CONTAINING SELF-HEATING PRODUCTS ΤI

Schmitt, William H., Elmhurst, IL, United States IN

PA Alberto Culver Company, Melrose Park, IL, United States (U.S. corporation)

ΡI US 3866800 19750218

AB . . an oxidant in an aqueous medium, and the other of said compartments containing a substantially anhydrous composition which includes a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said.

. . . storage of the two parts of the compositions, one of said parts SUMM containing an oxidant and the other containing a reductant, said two parts being adapted to be dispensed simultaneously with mixing whereby, on being admixed, an exothermic reaction occurs. Each of the two-part compositions contains various ingredients, in addition to their respective oxidant and reductant, including substantial proportions of water. The packages or containers in which said two-part compositions are packaged and from which they.

. . . of foam. While they employ separate compositions, one of which SUMM contains an oxidant and the other of which contains a reductant, and which separate compositions when admixed together evolve heat and give off a gas or form a foam, they achieve.

SUMM

. . . in an aqueous medium. In the other of said compartments there is housed a substantially anhydrous composition which includes a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said. . . for instance, of the order of 70°C., depending upon a number of factors including the selection of particular oxidants and reductants.

- The reductant-containing composition which, for convenience, may be called the B composition, will generally contain the reductant (or reducing agent) in proper amount to react with the quantity of oxidant in the A composition. Various reductants can be employed such as sodium or potassium salts of sulfurous acid or thiosulfuric acid as, for instance, sodium sulfite or potassium thiosulfate. Other reductants which can be utilized are shown, for example, in the aforementioned patents. It is particularly preferred to use sodium sulfite.
- The proportions of the oxidant and reductant, in relation to each other, are variable and will depend, of course, upon the particular oxidants and reductants utilized, generally being employed in approximately the proper stoichiometric proportions to achieve the exothermic reaction. In the case of the use of hydrogen peroxide as the oxidant and sodium sulfite as the reductant, I mol % of hydrogen peroxide is desirably used with about 3.7 mol % of sodium sulfite on the anhydrous.
- SUMM In addition to the reductant, or mixtures of reductants, the B composition will also contain a non-aqueous organic solvent in which the reductant is soluble or dispersible or suspendable, and in which organic solvent compressed or compressible gas or gases are dissolved whereby. . . .
- SUMM . . at room temperatures, or use temperatures, namely, the temperatures which are produced by the interaction of the oxidant and the reductant when the A and B compositions are mixed together (at ambient or atmospheric pressure) and which exists as a liquid.
- SUMM . . . present invention includes two flexible or collapsible compartments, one for holding the oxidant-containing composition and the other for holding the reductant-containing composition, the construction being such that, when the package or container is squeezed in the hand, substantially equal internal pressures.
- DETD . . desired unformity of collapsing, creating essentially equal pressures within each of the compartments (15, 16), as well as essentially equal reductions in compartment volumes. Both of the tube elements can be simultaneously compressed by the grasp of a single hand, as
- as. . . the dispenser container, compositions A and B are filled into their respective compartments, such as the compartment 16 for the reductant-containing composition before the end closure 17 is formed, and compartment 15 for oxidant-containing composition. The heat sealed end closure is.
- an oxidant in an aqueous medium, and the other of said compartments containing a substantially anhydrous composition which includes a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said.

 CLM What is claimed is:
- CLM What is claimed is:
 . compartments containing a substantially anhydrous composition which includes a sodium or potassium salt of sulfurous or thiosulfuric acid as a reductant, a water-soluble organic solvent, a compressible gas which is substantially water-insoluble but which is soluble in said organic solvent, said.
- CLM What is claimed is:
 2, in which the oxidant is a 1 to 20 percent aqueous solution of hydrogen peroxide, and in which the reductant is
- CLM What is claimed is: 7. The package of claim 6, in which the reductant-containing composition includes stearic acid, coconut oil fatty acids, diethanolamine, a water-soluble alkylene glycol, cetyl alcohol, and a polyethylene glycol
- CLM What is claimed is:
 8. The package of claim 3, in which the vapor pressure of the
 reductant-containing composition is in the range of from 0 to 10 psig at
- CLM What is claimed is: 11. The package of claim 10, in which the organic solvent in said

- L10 ANSWER 25 OF 32 USPATOLD on STN
- 1974:66209 USPATOLD AN THERMOGENIC SYSTEMS
- MARGOLIS E TN
- PA
- DART INDUSTRIES INC.
- PΙ US 3804771 19740416
- Another redox heating system is found in Antonell et al., U.S. Pat. DETD 3,632,516, which employs as a reductani potassium thiosulfate or a mixture of potassium thic sulfate and potassium sulfite with a sodium tungstat catalyst. While oxidation of thiosulfate ion provides greater heat yield than does the oxidation of thioures the problem with this system is the fact that for ever mole of thiosulfate oxidized, two moles of sulfate io are generated requiring the presence of excess base t prevent the pH from dropping precipitously and inhibi ing the formation of a soap. The thiosulfate and sulfit salts tend to cause gelling of soap compositions and ai also highly corrosive to metal dispensing containers an. .
- DETD . . above mixture reached a temperature 11 C. higher and reacted more rapidly in the presence of 0.1% catalyst than did thiosulfate with 0.5% catalyst (the catalyst being sodium molybdate). The same reductant and oxidant combination without sulfite present gave identical results.
- DETD . system wherein the two phases are mixed immediately before use. One phase contains an oxidant and the other contains a reductant whereby mixing the two evolves enough heat to produce a sensible rise in the temperature of the dispensed mixture. A. . . at least C. above room temperature is generally considered desirable. In the specific examples given hereinbelow, the weight ratio of reductant to oxidant was about 3:1. This 4,7 1 effected a temperature rise greater than F. in the dispensed product. It.
- . . . a two-part system within isolated compartments in a dispensing package. The hydrogen peroxide being in one part and the thermogen (reductant) in the other part. The thermogen part may contain the DETD consumertype ingredients if compatible. It is to be understood that. .
- As mentioned, the oxidant and reductant compositions are packaged DETD within a container in such a way as to remain isolated from each other. Valve means are. .
- DETD The proportion of oxidants and reductants to the total composition depends upon how much heat is desired, how much heat is required to heat the composition. . . dissipated. Generally, a much higher temperature rise will be utilized in hot windshield deicing compositions or engine degreasing compositions than shaving cream or cleansing preparations or other personal-use products. EXAMPLE 1.HOT SHAVING CREAM
- DETD
- L10 ANSWER 26 OF 32 USPATOLD on STN
- 1972:58646 USPATOLD AN
- SELF HEATING LATHER ΤI
- IN BODEN HERBERI
- ANTONELLI JOSEPH A
- E. I. DU PONT DE NEMOURS AND COMPANY PA A 19720104
- PT US 3632516
- DETD Another system, Moses et al., U.S. Pat. 3,341,418, employs a redox reaction with non-electrolyte reductants contained in a soap solution and hydrogen peroxide or urea hydrogen peroxide oxidants. The particular reductants utilized are thiourea and various thiobarbituric acid derivatives. The reaction of hydrogen peroxide with thiourea is accompanied by an unpleasant.
- . in Hayes et al., U.S. Pat. 3,326,416 and employs heating by DETD redox reaction with hydrogen peroxide oxidant and potassium sulfite reductant. The high concentration of potassium sulfilte necessary to effect a satisfactory temperature increase has a rapid corrosive effect
- . . . lather to a C. increase in temperature, assuming the ratio of DETD the volume of hydrogen peroxide to solution containing the reductant is 1:4.

- DETD . . leaving little room for the generated gas, it is readily appreciated that the developed pressure would be very high. Potassium thiosulfate would appear, from consideration of the small amounts required as shown in Table 1, to be an excellent reductant. Further, the thiosulfate salt can be introduced into soap solution to about 12.5 wt. percent, a concentration theoretically more than adequate to heat.
- DETD of total composition, (B) Hydrogen peroxide which is capable of reacting with rapid generation of heat when contacted with a reductant, (C) A reductant composition capable of reacting at 25 room temperature with said hydrogen peroxide to produce heat, said reductant composition being selected from the group consisting of:
- DEID (a) Potagsium thiosulfate and a catalytic amount of sodium, tungstate (b) A mixture of potassium thiosulfate and potagsium sulfite and a catalytic amount of sodium tungstate; materials (B) and (C) being isolated from sach other when.
- DETD ... pressurized dispenser, said lather being heated by a redox reaction between separately contained but co-dispensed hydrogen peroxide oxidant and a reductant composition contained in a soap solution, the improvement comprising the use of a reductant composition selected from the group consisting of:
- DETD (A) Potassium thiosulfate and a catalytic amount of sodium tungstate,
 (B) A mixture of potassium thiosulfate and potassium sulfite and a
 catalytic amount of sodium tungstate.
- DETD . . . invention comprises a warm aqueous foam composition obtained by intimately GO contracting an aqueous foamable composition with H2O2 and a reductant composition described as above.
- DETO Any dispensing container may be employed in the package of this invention provided the container maintains the oxidant and the reductant in separate compartments prior to dispensing them. One such container is depicted in the drawing and is described as follows.
- DEID . . from the pressurized container. The type and concentration of agent is readily determined by one skilled in the art. For **shaving foam**, however, the composition usually contains about four to about thirty percent by weight of foam producing agent. Useful such agents.
- DETD The reactants of the present invention are stored separately within the dispenser, one reactant (the reductant composition) being maintained in the aqueous dispersion of a foamable composition. When this reductant composition is the mixture of potassium thiosulfate and potassium sulfite in the presence of catalytic amounts of sodium tungstate, the mole ratio of the potassium thiosulfate to potassium sulfite is not critical; however, preferably the mole ratio should be about 0.4 to 0.9. Also for good results, the amount of the reductant composition in the aqueous dispersion should range from 3% to 8% by weight. The amount of catalyst present should range from .05% to .85% by weight of the reductants employed. The other reactant (hydrogen peroxide oxidant) is stored in an inner container, preferably a collapsible compartment within and smaller. . . outside container, the amount of hydrogen peroxide oxidant stored therein being chemically equivalent to or less than the amount of **reductant** present. The liquid reactants are dispensed simultaneously through an outlet after passing through the valve at the top of the outer container. In general, the dispersing ducts of the container are adjusted so that an excess of the reductant with catalyst-up to 20%-is combined with the hydrogen peroxide in order to avoid the possibility of an excess amount of. DETD
 - DEID . . . stored at room temperature until needed but had to be rewarmed before blending with part B. Part B contains the reductant composition (described as material (C) in this invention) and was prepared as follows:
- DETD Part B Deionized water was heated to C. and **reductants** (material (C) variable percent, see examples)1, potassium hydroxide (1.2%) and triethanolamine (3.5%) were dissolved in the water.
- DEID .. after reaction as measured with pH paper. Raising the pH of the soap solution, of course, promotes the reaction of thiosulfate ion with hydrogen peroxide.
- DETD In the examples, except as otherwise indicated, 20 10 grams of the above-described soap solutions containing reductant(s) in proportions stated in each example were reacted with 5 g, aqueous hydrogen peroxide of the stated concentration. The 4:1.
- DETD Weight percent of **reductants** in the examples is :based 3n the weight of the soap solution. Weight percent of hydrogen peroxide is the

- satisfactory in all respects.

 DETD . . weight of soap solution for each part of weight of hydrogen peroxide solution, the ratio of equivalents of oxidant to reductants is 1.0. A slight excess of reductant is usually preferred.
- DETD EXAMPLE This example shows in two concentrations of hydrogen peroxide the performance replication of pressurized dispensers using KZSC2-3-Na2MO4 reductant, over a period of 46 days.
- DETD EXAMPLE 11 R2SO3 (4 wt. percent) reductant in soap solution was combined with H2O2 (3.5 wt. percent) where percent of theoretical equivalents of H2O2 present was 102.
- DETD EXAMPLE 12 The reductant employed in the soap solution was K2s20s (3.0 wt. percent) and was combined with H2O2 (8.2 wt. percent) where the.
- DETO This example combined K2S203 (4.0 wt. percent) reductant in soap solution with H202 (8.2 wt. percent) where the percent of theoretical equivalents of H202 present was 71.7. As.
- of total composition, (B) hydrogen peroxide which is capable of reacting with rapid generation of heat when contacted with a reductant, (C) a reductant composition present in an amount between 3 and 8% based on the weight of (A) present, said reductant composition being capable of reacting at room temperature with the said hydrogen peroxide to produce heat, and said reductant composition being selected from the group consisting of (a) potassium thiosulfate and a catalytic amount of sodium tungstate, and (b) a mixture of potassium thiosulfate and potassium sulfite and a catalytic amount of sodium tungstate the amount of (B) present being chemically equivalent to or. . . is being conveyed toward said outlet.
 - A package according to claim 1 in which the re-ductant composition is potassium thiosulfate in the presence of catalytic amounts of sodium tungstate.
 - 3. A package according to claim 1 in which the re-ductant composition is a mixture of potassium thiosulfate and potassium sulfite in the presence of catalytic amounts of sodium tungstate.
 4. A package according to claim 1 in.

4. A package according to claim I in. . .

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COST ĬN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 130.65 142.61